

19980823.qrp v01_n192.qrs.980823

Date: Sun, 23 Aug 1998 19:03:08 EDT
From: qrp-l@Lehigh.EDU
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: QRP-L digest 1192

QRP-L Digest 1192

Topics covered in this issue include:

- 1) [18153] Off topic - need website help
by Ken Knecht <kenk@primenet.com>
- 2) [18154] N4SO - QRP-L "From Alphas to Z-Match" database manager
by "Robert J. Gobrick" <rgobrick@worldnet.att.net>
- 3) [18155] Too much free time &c
by nilsbull@juno.com (Nils R Young)
- 4) [18156] z32xa
by Pablo Luis Robles <wp4jxd@isla.net>
- 5) [18157] Atlas Radio Equipment
by w4bld@juno.com
- 6) [18158] Belton (TX) Swapfest QRP Lunch
by Glen Reid <k5fx@flash.net>
- 7) [18159] A Prayer For Roy Gregson
by FrConrad@aol.com
- 8) [18160] Year 2000 good for QRP
by "Charles Mabbott" <crmabbott@mediaone.net>
- 9) [18161] Re: A Prayer For Roy Gregson
by Ab7wy@aol.com
- 10) [18162] 300 ohm twinlead connections
by The Boices <boice@bigfoot.com>
- 11) [18163] 28 Mhz beacons
by n4so@juno.com (charles k brown)
- 12) [18164] KUDOS to Small Wonder Labs and thanks to group
by Rick Mintz <Rmintz@FRONTIERNET.NET>
- 13) [18165] endfed half-wave impedance?
by Bernie Doehner <bad@uhf.wireless.net>
- 14) [18166] Re: Year 2000 good for QRP
by "M. Monninger" <markem@primenet.com>
- 15) [18167] Re: Bubba/FYBO/W6EMT/etc.
by jaywa5whn@juno.com
- 16) [18168] Re: KUDOS to Small Wonder Labs and thanks to group
by "Roy Lincoln" <wa4dou@mailexcite.com>
- 17) [18169] FS- St. Louis tuner
by Bruce Huyck <bruce@pad-uky.campus.mci.net>
- 18) [18170] QRP Afield??
by k5zty@juno.com
- 19) [18171] Re: S&S "M1" marches on(& others)

- by k5zty@juno.com
- 20) [18172] Re: Infrared Key
by "George T. Baker" <w5yr@swbell.net>
- 21) [18173] Help with address for FR5DD pplease
by Scott Bauer <ke3nv@erols.com>
- 22) [18174] Re: RF connector losses (was Re: 1 dB loss/gain expressed as a percentage)
by "George T. Baker" <w5yr@swbell.net>
- 23) [18175] Re: Help with address for FR5DD pplease
by Hank Kohl K8DD <k8dd@contesting.com>
- 24) [18176] IT WORKS GREAT!!!
by Tracy@bytemark.com (Tracy)
- 25) [18177] Re: Atlas Radio Equipment
by Richard Brittingham <rbritt@visi.net>
- 26) [18178] Re: Help with address for FR5DD pplease
by Scott Bauer <ke3nv@erols.com>
- 27) [18179] NERDS Contest - Antenna ideas?
by "Bill Todd" <bill@willapabay.org>
- 28) [18180] NERDS Ideas #2
by "Bill Todd" <bill@willapabay.org>
- 29) [18181] AL7FS and CQC SUMMER QSO Party + ICQ
by "Jim Larsen (AL7FS)" <larsennnc@alaska.net>
- 30) [18182] AL7FS correction
by "Jim Larsen (AL7FS)" <larsennnc@alaska.net>
- 31) [18183] Re: AL7FS correction
by we6w@juno.com (Ed Loranger)
- 32) [18184] Re: AL7FS and CQC SUMMER QSO Party + ICQ
by Bob Patten <n4bp@bc.seflin.org>
- 33) [18185] Re: Infrared Key
by "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
- 34) [18186] Tunnel Diodes
by Joseph Mikuckis <k3chp@erols.com>
- 35) [18187] Re: NERDS Contest - Antenna ideas?
by ARDUJENSKI@aol.com
- 36) [18188] Re: Tunnel Diodes
by Chris Trask <ctrask@primenet.com>
- 37) [18189] dB Loss for Coax Connectors
by n4so@juno.com (charles k brown)
- 38) [18190] FLMA, Frank back (just long enough)
by MNHopkins@aol.com
- 39) [18191] RE: Surface mount
by Jay & Jackie <jayboy@bendnet.com>
- 40) [18192] Re: S&S "M1" marches on ...
by w4bws@juno.com (Donald E Sanders)
- 41) [18193] Re: [CW] 80 meter CW wasteland
by w4bws@juno.com (Donald E Sanders)
- 42) [18194] Re: 300 ohm twinlead connections
by The Boices <boice@bigfoot.com>

43) [18195] NERDS CONTEST ANT
by ARDUJENSKI@aol.com

44) [18196] propagation info
by Lisa Osier <osier@northnet.org>

45) [18197] Re: RF connector losses (was Re: 1 dB loss/gain expressed as
apercentage)
by "John J. McDonough" <jjmcd@tm.net>

46) [18198] 72/73
by "John J. McDonough" <jjmcd@tm.net>

47) [18199] Re: We're too smart for 80M CW
by "Frank A. West" <ke6vbm@earthlink.net>

48) [18200] Re: RF connector losses
by applitech@mcg.net (Claton Cadmus)

49) [18201] CQC contest today
by tom whalen <whalen@swcp.com>

50) [18202] Front Ends Revisited
by Tracy@bytemark.com (Tracy)

51) [18203] RE: Surface mount info..thanks
by Jay & Jackie <jayboy@bendnet.com>

52) [18204] Re: 72/73
by "Marshall Emm" <mgemm@mtechnologies.com>

53) [18205] Re: NERDS Contest - Antenna ideas?
by "Bill Todd" <bill@willapabay.org>

54) [18206] Re: NERDS CONTEST ANT
by "Bill Todd" <bill@willapabay.org>

55) [18207] KL7CC active on 40 mtr QRP.
by "Jim Larsen (AL7FS)" <larsennc@alaska.net>

56) [18208] Re: FLMA, Frank back (just long enough)
by we6w@juno.com (Ed Loranger)

57) [18209] Re: RF connector losses
by we6w@juno.com (Ed Loranger)

58) [18210] 6 meter HB
by Roger Braker <msebrakr@telepath.com>

59) [18211] Re: NERDS Ideas #2
by "Bill Todd" <bill@willapabay.org>

60) [18212] Re: NERDS Contest - Antenna ideas?
by kh6b@juno.com (Dean W Manley)

61) [18213] Re: HI QSO Party and NQ6RP
by kh6b@juno.com (Dean W Manley)

62) [18214] Re: 72/73
by Steve <smann@advi.net>

63) [18215] AL7FS whines again. :-) CQC contest #1
by "Jim Larsen (AL7FS)" <larsennc@alaska.net>

64) [18216] RE: Surface mount
by Ed Tanton <n4xy@att.net>

65) [18217] RE: 6 meter HB
by Tracy@bytemark.com (Tracy)

66) [18218] Bench RF signal source...MFJ - 249?

- by Dave Willey <dave@cds1.net>
- 67) [18219] RE: It works great computer receiver
by "Prof. Arnaldo Coro Antich" <inforhc@mail.infocom.etecsa.cu>
- 68) [18220] Re: S&S "M1" marches on ...
by Ed Tanton <n4xy@att.net>
- 69) [18221] Re: S&S "M1" marches on ...
by Ed Tanton <n4xy@att.net>
- 70) [18222] choke balun heat shrinking experience
by Arjen Raateland <Arjen.Raateland@vyh.fi>
- 71) [18223] RE: 6 meter HB
by Roger Braker <msebrakr@telepath.com>
- 72) [18224] CQC CONTEST
by Lisa Osier <osier@northnet.org>
- 73) [18225] Re: NERDS Contest - Antenna ideas?
by ARDUJENSKI@aol.com
- 74) [18226] Multi-band micro beam using hamsticks?
by Dave Willey <dave@cds1.net>
- 75) [18227] WD-40 Magic / Myths
by Dave Willey <dave@cds1.net>
- 76) [18228] THE INVERTED WYE
by ARDUJENSKI@aol.com
- 77) [18229] ZM-2 caps, hamfests, mini-keyer
by "Beaks" <beaks@westco.net>
- 78) [18230] Protel, schematic drawing programs?
by WD6BOR@aol.com
- 79) [18231] CQC.....
by Lisa Osier <osier@northnet.org>
- 80) [18232] Re: NERDS Contest - Antenna ideas?
by "Bill Todd" <bill@willapabay.org>
- 81) [18233] Somebody Software (was: re: CW Binaural Spatial Separation)
by "laura halliday" <marsgal42@hotmail.com>
- 82) [18234] RE: 6 meter HB
by Tracy@bytemark.com (Tracy)
- 83) [18235] bandpass filters
by Roger Braker <msebrakr@telepath.com>
- 84) [18236] Elmer 100 "Booklet" & QRPP
by Paul Harden <pharden@aoc.nrao.edu>

Date: Sat, 22 Aug 1998 17:01:17 -0700
From: Ken Knecht <kenk@primenet.com>
To: qrp-l@Lehigh.EDU
Subject: [18153] Off topic - need website help
Message-ID: <3.0.5.32.19980822170117.007c52e0@pop.primenet.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I just finished a 32-bit shareware (\$10) GUI electronic calculator. All kinds of stuff in it - ohm's law, resonance, Q, bandwidth, reactance, impedance, P/S ripple simulator, etc. Really neat! This is full-strength, no beg screens, no time limit.

Anyway, to get to the point - anyone willing to put this on their ham web site? If so, I'll send you a copy via snail (pretty big to email). I don't have a web site and likely will be changing ISPs soon.

TIA.

Ken

Date: Sat, 22 Aug 1998 19:18:01 -0500
From: "Robert J. Gobrick" <rgobrick@worldnet.att.net>
To: qrp-l@Lehigh.EDU
Cc: n4so@juno.com (charles k brown)
Subject: [18154] N4SO - QRP-L "From Alphas to Z-Match" database manager
Message-ID: <3.0.32.19980822191656.00d9eb7c@postoffice.worldnet.att.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

QRP-L gang,

I'm sure many of you may remember the Rich Rosen publication called "From Beverages to Oscar" (or something like that..) which was a database of past QST, CQ, 73, Ham Radio and Radcom etc ham articles. Unfortunately, that book and service stopped being publish many moons ago.

But we have such a service for QRP articles right here on the QRP-L. And that service, over the years, has been coming from Ken Brown N4SO in Mobile, Alabama (city famous for their soft shell crabs, oysters etc at the downtown restaurant that I can't remember). I just wanted to publicly thank Ken for the tid bits of information that he has cataloged on QRP topics over the years. Now the big question to Ken is "Where can we "tap" into that database of yours on-line"? It would be nice if you had a web site, or had a QRP club sponsor you a website, that we could do a "search" of the database for QRP related articles/ review etc. in QST, CQ, 73, Worldradio, QRP Quarterly, QRPp, Low Down, 5 Watter, Sprat, etc etc.

Anyway - thanks Ken for your diligent reporting of QRP tidbits - it never goes unmissed by at least one reader of the qrp-l.

Cheers 73/72 Bob N0EB

Anyway

Date: Sat, 22 Aug 1998 17:08:05 EDT

From: n4so@juno.com (charles k brown)

To: qrp-l@Lehigh.EDU

Subject: [18147] SMT/QRP kits in CQ Mag. Sept.

Message-ID: <19980822.210138.5119.2.n4so@juno.com>

CQ Magazine for September 1998

Surface Mount Technology kits

--on page 46 the Pixie in SMT version, describing surface mount technology and a circuit diagram of the Pixie.

--on page 48/50 the Embedded Research Keyer in SMT version

--on page 49 the Embedded Research New Universal DC-to-DC Converter EPS-1, inputs 4 - 16 volts and outputs 12 volts

/.5 amp in the SMT version.

Ken

N4SO@juno.com

Mobile, AL

Bob Gobrick - Stillwater, MN

Internet: rgobrick@att.net

Date: Sat, 22 Aug 1998 20:01:56 -0500

From: nilsbull@juno.com (Nils R Young)

To: QRP-L@Lehigh.EDU

Subject: [18155] Too much free time &c

Message-ID: <19980822.200205.11942.1.nilsbull@juno.com>

Yo! Possum-heads!

If you don't know about this week, you will. Cindy & I have spent the last 7 days shoveling crushed red brick dust out of the area in the yard where a nasty ol' garage was taken down about two years ago. We killed off weeds. We shoveled dirt. We raked. We cussed. We snorted. And we found a place for damn near every single pound of that brick dust around the buildings &c. And then . . . And then . . .

We shoveled eight cubic yards of primo quality top soil all around the hole where the brick dust had been & put grass seed on it & straw & turned on the water sprinklers.

We lucked out. It was dry & not too hot. But man, did I have to take breaks. And every shovel full made me think of those braceros in the fields around here, sun-up to sun-down workin' fo' de man.

And then it was RADIO TAAAAAIIIIIMM!!!!!!

I had a neat QSO on the Sierra with W8OHM. He was telling me about his time in WW2, when he was a signal corps intercept operator. Served in Europe, in the Pacific, in the Marianas & Solomons. And all day long copyin' code. German code, Japanese code, whoever code. I gotta send him a card, 'cept I forgot to write down the date & time of the QSO. It was neat. Me bangin' away on the old Soviet shipboard key, him usin' an old German key he had.

Then, a couple minutes ago, I caught this guy on 40 callin' CQ with a bug. Yeah, I know: "Not that damn bug argument again!" Well, it was cool. Mike, the guy on the other end, in Baltimore, had just put up a new 2m antenna & had been workin' on an old Tempo One (remember them?!?!?), which he hosed up about halfway through the deal. I was runnin' the Sierra, so I figured "One good old radio needs another." And the TR7 is over 20 years old, gang.

So that was cool. Mike had to go to a straight key for the Tempo. Said it made him nervous. Hell, I was usin' my pride and joy JRC straight key that I guess is at least 15 years old. Two old guys playin' with two old radios, usin' two old keys.

It don't get no better 'n that.

And yes, the TR7 was QRO. But I'd just finished doin' a slight alignment on the AM PBT setting & had turned the power back with the ALC pot to around 90 watts on 20m. That's QRP for that radio, see?

Ok, so you don't see.

But it was a fun deal. Now I'm ready for more. In fact, I even cleaned off the bench so I could do some more.

And was it my imagination, or was there an aurora thing last night/early this morning? Dead bands and weak watery signals. Hmmm . . . must have been that "SUN STORMS!" show on TLC that I was watching. Or that sun-face doodad that Cindy just hung on the side of the shack. (So I gotta take another pincher for the web site.)

73

Nils

. . . you might even find me on the air . . . scary thought, ne?

Nils R. Bull Young

La Estancia de los Guajolotes Sonrientes :: The Grinnin' Turkey Ranch

WB8IJN &c :: The Tagalong Press :: email to: nilsbull@juno.com

<http://www.geocities.com/Athens/Olympus/9172>

You don't need to buy Internet access to use free Internet e-mail.

Get completely free e-mail from Juno at <http://www.juno.com>

Or call Juno at (800) 654-JUNO [654-5866]

Date: Sat, 22 Aug 1998 20:41:58 -0400 (AST)

From: Pablo Luis Robles <wp4jxd@isla.net>

To: QRP MAILING LIST <qrp-l@Lehigh.EDU>

Subject: [18156] z32xa

Message-ID: <Pine.LNX.3.95.980822204034.1175A-100000@pentagon>

MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

z32xa is CQing around 14.015. A very easy catch with 5w from PR.

Regards,

Pablo Luis

Date: Sat, 22 Aug 1998 20:58:11 -0300

From: w4bld@juno.com

To: qrp-l@Lehigh.EDU

Subject: [18157] Atlas Radio Equipment

Message-ID: <19980822.205812.3326.1.w4bld@juno.com>

Hi Gang - Does anyone know anything about an Atlas users group or a web page. (I know this isn't really QRP, but I need help.) Many Thanks, Bob
Robert B. Kerby - W4BLD

PO Box 991 (231 Rosser Avenue)
Waynesboro, VA 22980
(540) 942-4356
(I collect Gonset, Morow and Elmac)

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com>
Or call Juno at (800) 654-JUNO [654-5866]

Date: Sat, 22 Aug 1998 20:05:50 -0500
From: Glen Reid <k5fx@flash.net>
To: QRP-1 List <qrp-1@Lehigh.EDU>
Subject: [18158] Belton (TX) Swapfest QRP Lunch
Message-ID: <35DF6AEE.B5210C3@flash.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=iso-8859-1
Content-Transfer-Encoding: 8bit

The Austin QRP Club (A QRP Club) invites all QRPers (especially
NORTEX and HQRP members) planning to be at the:

The Belton, TX Swapfest
Saturday, October 3
Bell County Convention Center

to join us at the:

THE SEMI ANNUAL AFTER BELTON, QRP, LIE SWAPIN GET TOGETHER AND BARBECUE
EATIN CONTEST

WHERE:

Schoepf s Old Time Pit BBQ at 702 East Central Ave. in Belton.
In Bell County, Schoepf s is about the best around. One of those get
it from the pit on butcher paper places with lots of tables outside.

DIRECTIONS:

>From IH35, north or south bound, take the Central Ave. exit; west on
Central Ave., about three or four blocks to Schoef s BBQ, on the right.

WHEN:

About 1 PM, most of the good trading is done by then anyway.

Bring your newly acquired goodies or that stuff you couldn't sell and
join us for more QRP stuff.

We wanted to treat everyone, BUT sadly, when we checked the treasury we found 32 cents, a Capital Metro bus token and a 2N2222. So, you better bring money for your own lunch! We may, however, be able to find one of our super, high tech, whiz bang A QRP Club door prizes for this event.

As with all activities NOT sponsored by A QRP Club, this event is NOT sponsored by A QRP Club.

Email me directly or check

http://www.flash.net/~k5hgb/belton_meet.html

if you need additional information.

73

gr

--

GLEN REID
K5FX/M BGF

Austin...in the beautiful hill country of TEXAS...

Austin QRP Club # Pi

Email: k5fx@flash.net

Date: Sat, 22 Aug 1998 21:20:51 EDT
From: FrConrad@aol.com
To: QRP-L@Lehigh.EDU
Cc: ROYGREGSON@aol.com
Subject: [18159] A Prayer For Roy Gregson
Message-ID: <bbea7df.35df6e74@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

Dear Friends,

If you are offended by Christian prayer, please DELETE this message now.

Assuming there are some still here...

Let us pray,

O God of grace and glory, we remember before you this day our brother Roy. We thank you for giving him to us, his family and friends, to know and to love as a companion on our earthly pilgrimage. In your boundless compassion, console us who mourn. Give us faith to see in death the gate of eternal life, so that in quiet confidence we may continue our course on earth, until, by your call, we are reunited with those who have gone before; through Jesus Christ our Lord.

Amen.

Date: Sat, 22 Aug 1998 21:29:20 -0400
From: "Charles Mabbott" <crmabbott@mediaone.net>
To: <qrp-1@Lehigh.EDU>
Subject: [18160] Year 2000 good for QRP
Message-ID: <000b01bdce35\$73fb9ce0\$3e298318@mw.mediaone.net>
MIME-Version: 1.0
Content-Type: multipart/alternative;
boundary="-----_NextPart_000_0008_01BDCE13.ECBF4360"

This is a multi-part message in MIME format.

-----=_NextPart_000_0008_01BDCE13.ECBF4360
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

Has anyone considered the year 2000 <maybe> problem on the CPU=20
chip controlled radios ever wonder?

QRP at it's basic level is survivable, what about the new stuff? We=20
may have a reduction in QRM.
Have a great day, 73
Chuck
AA8VS

-----=_NextPart_000_0008_01BDCE13.ECBF4360
Content-Type: text/html;
charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

<!DOCTYPE HTML PUBLIC "-//W3C//DTD W3 HTML//EN">
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http-equiv=3DContent-Type>
<META content=3D'"MSHTML 5.00.0518.7"' name=3DGENERATOR>
</HEAD>
<BODY bgColor=3D#d8dcd8>
<DIV><FONT color=3D#000000 size=3D2>Has anyone considered the year 2000=20
&lt;maybe&gt; problem on the CPU </FONT></DIV>

<DIV><FONT color=3D#000000 size=3D2>chip controlled radios ever =
wonder?</FONT></DIV>

<DIV><FONT color=3D#000000 size=3D2></FONT>&nbsp;</DIV>

<DIV><FONT color=3D#000000 size=3D2>QRP at it's basic level is =
survivable, what=20
about the new stuff?&nbsp;</FONT></DIV>

<DIV><FONT color=3D#000000 size=3D2>may have a reduction in =
QRM.</FONT></DIV>

<DIV><FONT color=3D#000000 size=3D2>Have a great day, 73</FONT></DIV>

<DIV><FONT color=3D#000000 size=3D2>Chuck</FONT></DIV>

<DIV><FONT color=3D#000000 size=3D2>AA8VS</FONT></DIV>
</BODY></HTML>
```

-----=_NextPart_000_0008_01BDCE13.ECBF4360--

Date: Sat, 22 Aug 1998 21:30:10 EDT
From: Ab7wy@aol.com
To: qrp-1@Lehigh.EDU
Subject: [18161] Re: A Prayer For Roy Gregson
Message-ID: <40aad471.35df70a3@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

cool, regardless of your denomination, as long as it is based in peaceful thoughts...a prayer is a nice thing, hes certainly in mine. god bless Roy Gregson. though weve never met, he obviously touched many lives and helped the cause of amateur radio. i send him a long 73.

73...Adam, AB7WY

dit dit.....

Date: Sat, 22 Aug 1998 20:30:28 -0500
From: The Boices <boice@bigfoot.com>
To: qrp-1@Lehigh.EDU
Subject: [18162] 300 ohm twinlead connections
Message-ID: <3.0.5.32.19980822203028.0079f380@mailbox.arn.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I've been slowly working on getting a loop antenna up & running. It's made of the cheap clear/cloudy Radio Shack 300 ohm twinlead, as is the feedline. Now, this is a small loop (distributed capacitance twisted loop - DCTL), and a different loop is needed for each band. HOWEVER, I want only one feedline running into the house, necessitating easy connection/disconnection of the feedline between loops.

This stuff is pretty small & flimsy - any suggestions? I was wondering if some small alligator clips attached to the end of the feedline would work OK without substantially messing up the impedance.

My other option is to get the impedance of the antenna to match 50 ohm coax, & put a female BNC on each loop, which I may do anyway. But for now I'd like to try the low loss twinlead route.

Ideas?

73,

Mike
KM5PE
Canyon TX

Date: Sat, 22 Aug 1998 21:44:36 EDT
From: n4so@juno.com (charles k brown)
To: qrp-1@Lehigh.EDU
Subject: [18163] 28 Mhz beacons
Message-ID: <19980823.013810.4831.5.n4so@juno.com>

28 Mhz beacons.
KE4YVL 1500z 8/22 s-0/ signal reports via clayno@nc-cap.org

Several beacons have Web pages for their 28 Mhz beacons. KE4YVL is on 28.290 / 3 watts from North Carolina. W4CL is the system opr.

**

From: Charles Layno <clayno@nc-cap.org>
Date: Sat, 22 Aug 1998 17:32:36 -0700
Subject: Re: 28 Mhz beacon

Thanks for the report Ken.
Check out www.triadntr.net/~w4cl/beacon/bcn.html
for info on the beacon.

Charles Layno, W4CL
sysop of KE4YVL 10M Beacon
nnnn
ke4yv1.txt

Ken
N4S0@juno.com
Mobile, AL

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com>
Or call Juno at (800) 654-JUNO [654-5866]

Date: Sat, 22 Aug 1998 21:38:55 -0400
From: Rick Mintz <Rmintz@FRONTIERNET.NET>
To: QRP Newsgroup <qrp-l@Lehigh.EDU>
Subject: [18164] KUDOS to Small Wonder Labs and thanks to group
Message-ID: <35DF72AF.5668E628@frontiernet.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hello Hamsters,

Wanted to send thanks to all those that offered useful information towards my purchase of my first QRP rig.
Was looking
for a 20 meter phone kit.

Decided on a 'Small Wonder Labs', White Mountain model, 20 meter SSB kit. Also have ordered an Emtech ZM-2,

80-10 tuner.

Both will be mounted in a carved wooden box with a flip up lid. Should be an interesting project. Expect that

I'll try

20 meter, QRP, SSB, Worked All States first. Maybe I'll even find the last three states toward my 5 Band WAS.

Mention must be made of Small Wonder Labs. Dave, NN1G shipped my kit upon receipt of my personal check (no

7-10 day

wait). I emailed him today since I wanted to add something to the order. Told him I would send another check.

He is

shipping me the extra parts on Monday, BEFORE the check even gets there!

WOW!

The radio community deserves to know about this level of trust (especially towards a new customer). I believe

that we

should all be true to our word (i.e. the check is in the mail) but in today's environment, NN1G, is to be commended.

Well, done Dave. Next time I look for a project, Small Wonder is the first place I'll look.

I expect my ICOM 765 to be lonely for a while.....

73 de Rick, W1TY/(soon QRP)

Date: Sat, 22 Aug 1998 18:48:54 -0700 (PDT)
From: Bernie Doehner <bad@uhf.wireless.net>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [18165] endfed half-wave impedance?
Message-ID: <Pine.BSF.3.96.980822184350.437B-100000@uhf.wireless.net>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi Gang:

Would like to build a 15 meter 1/2 wave in the following configuration:

Coax Z>50 Half Wave ($0.92 * 0.5 * \text{Lamda}$ in free space)
Radio 0=====0-----

rather than the more popular shorted 1/4 wave stub (J-Pole) configuration.

Question I have, is what is the impedance of an end-fed 1/2 wave radiator?

I have heard, 1K, 2K, 3K..

Second question, anyone know of cheap sources for 93 ohm coax in Orange County, CA?

Thanks.

Bernie

Date: Sat, 22 Aug 1998 18:50:38
From: "M. Monninger" <markem@primenet.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [18166] Re: Year 2000 good for QRP
Message-ID: <3.0.5.32.19980822185038.009ca990@pop.primenet.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

The only time there will be a year 2000 problem in a computerized device is when there is some decision being made by the software based on the date, and then only if the entire 4 digit year is not used. If there is nothing that is date-sensitive, there will be no Y2K problem. As far as I know, few, if any, of the modern microprocessor controlled radios care about the date, except maybe to display it. One way to tell for sure is to see if there is any way to set the date. If not, it doesn't care about the date and so there will be no Y2K problem.

While not denying that there will probably be some problems when 2000 rolls around, it seems to me that there might be a little hysteria about the whole thing. For instance, there was a long discussion on one of the automotive newsgroups about whether all the computer controlled cars will run after 12/31/99. Again, I don't know of any cars whose ECU's care about the date...

Now, back to our regularly scheduled program...

73... Mark AA7TA

At 09:29 PM 8/22/98 -0400, Charles Mabbott wrote:

> <> problem on the CPU chip controlled radios ever wonder? We
> may have a reduction in QRM. Have a great day, 73 Chuck AA8VS

Date: Sat, 22 Aug 1998 20:29:33 -0600
From: jaywa5whn@juno.com
To: qrp-1@Lehigh.EDU
Subject: [18167] Re: Bubba/FYB0/W6EMT/etc.
Message-ID: <19980822.202934.6566.0.jaywa5whn@juno.com>

What a great bunch of People on this list server.. OK, take a look at the following url;

<http://www.analog.com/publications/magazines/Dialogue/30-4/accce1.html>

There are other accelerometers out there too. With a PIC, you can clean up most of the noise coming from the sensor. My thoughts were a clip on device, say with one, possibly 2 accelerometers. {Don't worry Joe - AB7TT, I won't use C++} There is absolutely no reason why you can not emulate a set of paddles with a single 2D accelerometer sensor. I need to put this in a CAD package to look at the simulation.

NQ7K had the funniest response. Thanks Mike. :-)

72...Jay,

WA5WHN DM65qd Albuquerque, NM USA

I wonder how Buddy {The First Dog} likes his new room mate? {Billy C., aka The Prez} ;:-)

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Or call Juno at (800) 654-JUNO [654-5866]

Date: Sat, 22 Aug 1998 19:38:09 -0700
From: "Roy Lincoln" <wa4dou@mailexcite.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>,
Rmintz@FRONTIERNET.NET
Subject: [18168] Re: KUDOS to Small Wonder Labs and thanks to group
Message-ID: <BJNJHNOAGGAOBAAA@mailexcite.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi Rick,

Roy Gregson once did the same thing with me and i too was quite impressed. It wouldn't work at all if we were just the general public. I've been a ham for 37 years and once thought hams were very special people, a cut above the general population. Eventually reality set in and i lost that feeling. Qrp'ers today seem to be rekindling everything i think is/was good about the past and our technical hobby. Makes one proud to be part of it in some small way, and appreciate NN1G, W6EMT, and others who go above and beyond the call of duty. 73 Roy WA4DOU

--

On Sat, 22 Aug 1998 21:38:55 Rick Mintz wrote:

>Hello Hamsters,

>

>Wanted to send thanks to all those that offered useful information towards my purchase of my first QRP rig.

>Was looking

>for a 20 meter phone kit.

>

>Decided on a 'Small Wonder Labs', White Mountain model, 20 meter SSB kit. Also have ordered an Emtech ZM-2,
>80-10 tuner.

>

>Both will be mounted in a carved wooden box with a flip up lid. Should be an interesting project. Expect that

>I'll try

>20 meter, QRP, SSB, Worked All States first. Maybe I'll even find the last three states toward my 5 Band WAS.

>

>Mention must be made of Small Wonder Labs. Dave, NN1G shipped my kit upon receipt of my personal check (no

>7-10 day

>wait). I emailed him today since I wanted to add something to the order. Told him I would send another check.
>He is
>shipping me the extra parts on Monday, BEFORE the check even gets there!
>
>WOW!
>
>The radio community deserves to know about this level of trust (especially towards a new customer). I believe
>that we
>should all be true to our word (i.e. the check is in the mail) but in today's environment, NN1G, is to be
>commended.
>Well, done Dave. Next time I look for a project, Small Wonder is the first place I'll look.
>
>I expect my ICOM 765 to be lonely for a while.....
>
>73 de Rick, W1TY/(soon QRP)
>
>
>
>

Free web-based email, Forever, From anywhere!
<http://www.mailexcite.com>

Date: Sat, 22 Aug 98 21:27:35 PDT
From: Bruce Huyck <bruce@pad-uky.campus.mci.net>
To: Post to QRP-L <qrp-l@Lehigh.EDU>
Subject: [18169] FS- St. Louis tuner
Message-ID: <MAPI.Id.0016.00727563652e70613939383930303133@MAPI.to.RFC822>
MIME-Version: 1.0
Content-Type: text/plain; charset=US-ASCII; X-MAPIextension=".TXT"
Content-Transfer-Encoding: quoted-printable

For Sale-
St. Louis tuner in excellent condition. Dual meters, balanced/unbalanced= inputs
with SO-239, BNC, and RCA jacks. Bypass switch and internal dummy load = for
QRP power levels. \$75 plus \$3 shipping in CONUS
Bruce Huyck KS4V
243 Japonica Drive

Paducah, KY 42003 NORCAL , ARCI
HW-9,Norcal 40A, SWL 40-40,38 spec, OHR 100/20

Date: Sat, 22 Aug 1998 23:53:17 -0500
From: k5zty@juno.com
To: qrp-l@Lehigh.EDU
Subject: [18170] QRP Afield??
Message-ID: <19980823.013817.6902.3.k5zty@juno.com>

GE to the group,

I have on my calander that the QRP Afield event will be on Sept, 19th. I don't remember where I got that date and I haven't seen anything on this list lately about it.

Is it still on? Who is sponsoring it? Are the rules the same as last year? Is the New England Club still around?

I want to participate and need to make some reservations for the use of some restricted land if it is still on.

Any info would be much appreciated.

72,

Bill, K5ZTY

Houston, TX

k5zty@juno.com

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Or call Juno at (800) 654-JUNO [654-5866]

Date: Sat, 22 Aug 1998 23:37:48 -0500
From: k5zty@juno.com
To: jduffy1@ix.netcom.com
Cc: qrp-l@Lehigh.EDU
Subject: [18171] Re: S&S "M1" marches on(& others)
Message-ID: <19980823.013816.6902.2.k5zty@juno.com>

Take a deep breath and relax Duffy. It's not as if this stuff was

necessary or important or life giving or something. This is hobby stuff and is a sideline business for most people and companys. Give 'em time to get it right. It will get here in due time. They could elect not to do it at all. I've been waiting for the OHR500 since early spring. I get a little anxious some time but not enough to blast the company or the people.

72,
Bill, K5ZTY
Houston, TX
k5zty@juno.com

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Get completely free e-mail from Juno at <http://www.juno.com>
Or call Juno at (800) 654-JUNO [654-5866]

Date: Sat, 22 Aug 1998 23:24:35 -0500
From: "George T. Baker" <w5yr@swbell.net>
To: Rick Arzadon <wa8rxi@juno.com>
Cc: qrp-l@Lehigh.EDU
Subject: [18172] Re: Infrared Key
Message-ID: <35DF9983.FAF875FD@swbell.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Good, Rick. Yeah, it is hard to find anything of his that is not top notch.

My apologies to LB for the typo that misspelled his name!

72/73, George didit dit
Amateur Radio W5YR, 52 years and counting! 33.2 N 96.6 W EM13RE
QRP-L #1373 QRP ARCI #9583 FISTS #4930 ARS #403 ICQ #16819496
AutoPOWER Systems, Fairview, TX (30 Mi. NE of Dallas) 10-X #11771

Rick Arzadon wrote:

>
> I found it! I found it!
> It's in the July 1993 issue Page 36.
> Thanks George
> 72, Rick Arzadon - WA8RXI Taylor, MI.

Date: Sun, 23 Aug 1998 00:42:48 -0400
From: Scott Bauer <ke3nv@erols.com>
To: qrp-1@Lehigh.EDU
Subject: [18173] Help with address for FR5DD pplease
Message-ID: <199808230442.AAA21786@smtp1.erols.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi Gang,
Im very happy to have worked a new country!!! FR5DD, Reunion.
Who says the bands are dead?? ;-))
I wonder if anyone might be able to help me with this address?
I have the correct mailing address but dont have the Country Prefix
to put under it. RAC Callbook says the QSL goes to France but
my logging program says the QSL goes to Africa?
Does anyone know for sure??
Any help will be appreciated.

Scott W3CV FM19

Date: Sat, 22 Aug 1998 23:46:59 -0500
From: "George T. Baker" <w5yr@swbell.net>
To: boice@bigfoot.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [18174] Re: RF connector losses (was Re: 1 dB loss/gain expressed as a
percentage)
Message-ID: <35DF9EC3.943778C4@swbell.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

A couple of folks on the list have mentioned the losses attributed to
UHF connectors: pme said one db per connector and another said 1/2 db.

I have asked for the frequency at which these measurements/estimates
were made but no response so far.

It is not rational to believe that running coax through only 3
connectors at HF would incur a loss of 3 db! That means that the power
delivered by a nominal 100-watt transceiver is degraded by a 26% loss (1

db) just getting out of the box: One panel connector (S0-239) and one cable connector (PL-259). This estimate is generous in attributing the lesser value of 1/2 db to each connector.

Let's see, now. There is probably one other pair at the antenna end. There goes another 26%. Sure makes an argument, if true, for ladder line.

Really . . . ;^)

I recently measured the loss of about 100 feet of RG-8x going out to my 40-meter vertical through two sections of coax, a couple of barrel connectors and through a RadioWorks coax-braid choke. Used my new Autek RF-1 stunt box. The answer came out about what the coax alone should indicate! No additional loss that could be attributed to the several pairs of coax connectors could be measured. This was done at 7 MHz where the vertical is operated.

I think that the original comment of 1 db per connector, later added to by another poster as 1/2 db per connector, may very well apply at frequencies in the UHF range and higher for the so-called UHF connectors: S0-239 and PL-259 and barrel connectors. But for HF, I would have to believe that losses are essentially negligible assuming that the connectors are of good quality to begin with and have been properly installed.

Uh-oh, here goes another one! Sorry about that, Chuck . . . ;^)

72/73, George didit dit
Amateur Radio W5YR, 52 years and counting! 33.2 N 96.6 W EM13RE
QRP-L #1373 QRP ARCI #9583 FISTS #4930 ARS #403 ICQ #16819496
AutoPOWER Systems, Fairview, TX (30 Mi. NE of Dallas) 10-X #11771

Date: Sun, 23 Aug 1998 05:16:49 +0000
From: Hank Kohl K8DD <k8dd@contesting.com>
To: ke3nv@erols.com
Cc: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [18175] Re: Help with address for FR5DD pplease
Message-ID: <3.0.5.32.19980823051649.009d3100@192.0.0.1>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

>From the cards that I got awhile back:
Pierrat Jean
8, avenue des Badamiers

Les Filaos
97434 - St GILLES LES BAINS

I believe France is correct

Got a couple cards from FR5DD - he has a neat suffix!

73 Hank K8DD

At 00:42 8/23/98 -0400, Scott Bauer wrote:

>
> Hi Gang,
> Im very happy to have worked a new country!!! FR5DD, Reunion.
>Who says the bands are dead?? ;-))
> I wonder if anyone might be able to help me with this address?
>I have the correct mailing address but dont have the Country Prefix
>to put under it. RAC Callbook says the QSL goes to France but
>my logging program says the QSL goes to Africa?
>Does anyone know for sure??
> Any help will be appreciated.
>
> Scott W3CV FM19
>
>
>
>
>
>

Date: Sun, 23 Aug 1998 01:23:39 -0400
From: Tracy@bytemark.com (Tracy)
To: "QRP-L" <qrp-l@Lehigh.EDU>
Subject: [18176] IT WORKS GREAT!!!
Message-ID: <000501bdce56\$2f373b20\$57751ad1@titan>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

At least it sounds like it does, I'll do real measurements over the next week. Right now I'm doing the happy dance and listening to wall-to-wall ear blasting signals out of my computerized receiver.

I have to thank all of you, especially the handful of you who have

corresponded with me privately. The information I've received just reading over your posts and general list traffic have helped tremendously with my project.

The distribution of gain and filtering seems to be absolutely fantastic. It's running off of a 5' wire in the shack right now, so it's not even firing up the AGC and I have no idea what the dynamic range is, but it SOUNDS GREAT!!!

I still have a bunch of birdies, but no more than I have on my Kenwood on the bench with the computer opened up in front of it. I have a good solid shielded box ready to accommodate the new receiver, and has room for the fixin's to make it a complete transceiver. It should work out just fine. Here's a brief (!) discussion of my circuit.

The configuration is a '486 computer with a Sound Blaster 32, a crystal oscillator, and a PC-VFO. It is a single conversion design, using 9 MHz as the IF frequency. Selectivity is accomplished with a KVG XF9A crystal filter, much like the INRAD filters mentioned on the list recently. The BFO is another PC-VFO set to 8.9985 and 9.0015, for upper and lower sideband. (Both are needed as one can use either image for the injection ...) I'll eventually change this out to be a pair of crystals unless I fall too deeply in love with the ultimate IF shift.

The filter is followed by an IF amplifier described in the Progressive Communications receiver by Wes Hayward in the mid 80's. Yeah, it's dated but it works great.

The product detector is the first third of the R1 design up to and including the 3 kHz elliptical low pass filter, which is terminated into a 470 ohm resistor. This output is routed to the Line input on the Sound Blaster card during normal operation. For short antenna operation or for VERY weak signals, the audio can be routed to the Mic input of the sound card but it is easy to over drive and distort there.

Operation frequency is determined by the PC-VFO and is mixed to 9 MHz with an SBL-1 followed by a 2n5109 amplifier that really only terminates the mixer to 50 ohms. The conversion net gain is 10dB. I currently have no front end filtering, I will be working on that scheme this week. This and the 8255 controller for switching and other functions are my next phase, with the transmitter and amplifier being last.

I want the front end filtering to be a bit clever as I want to be able to use either 'high side' or 'low side' mixing. I've noticed this evening it can make a HUGE difference shifting the mix image to remove adjacent channel interference and other image problems. It's fascinating to have so much flexibility!

The audio out of this rig is absolutely astounding. Using the bass and treble features of the sound card in conjunction with detuning the BFO I can make the audio 'broadcast' quality. I can't wait to use some of the DSP features of the sound cards!

Has anyone used Brian Beezeley's DSP BLASTER or similar filter software with a sound blaster? I understand it has many features including tone adjustment and other shifting features. Imagine, you zero-beat your offending signal, then tone-bend the signal you want to hear back to a comfortable listening range. All this right out of a home made computerized radio!!

Once this is together I'll be able to do all sorts of things via software. Packet, Amtor, etc re all available through software. I've already learned TONS about RF and mixing just trying to understand why all the signals were 1.5 KC away from the commercial rigs ... grin.

The hardware is all modular, so I can modernize the IF and other sections as I want or need.

This is great!!! Thanks again for all the help, and for allowing me to read your conversations and comments.

I've recently acquired a damaged Quick Cam that will do enough to get a few pictures of this online. I'll post when it gets there. Bob, Bill, Bruce, Adam, Leon, and the bunch, thanks for the encouragement!!

Tracy N4LGH
QRP-L #1453

Date: Sun, 23 Aug 1998 01:08:46 -0400 (EDT)
From: Richard Brittingham <rbritt@visi.net>
To: w4bld@juno.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [18177] Re: Atlas Radio Equipment
Message-ID: <Pine.GS0.3.96.980823010647.288A-100000@ankara.visi.net>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

There is a swan net on 40 meters but I haven't checked in for many months. The ham who owned and designed the Atlas rigs designed the Swan rigs as well. There are knowledgeable hams ref: Atlas on the Swan net.

73,

Richard W4MCD
(Atlas 210 owner)

Amateur Radio Operator as WD4AEF for 22 years
Now Vanity Call is W4MCD

Date: Sun, 23 Aug 1998 01:49:57 -0400
From: Scott Bauer <ke3nv@erols.com>
To: ke3nv@erols.com, qrp-1@Lehigh.EDU
Subject: [18178] Re: Help with address for FR5DD pplease
Message-ID: <199808230549.BAA28714@smtp1.erols.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Ok!! Thanks to all that replied. There were many!
I have the correct address and will send the card
"Via France"
What a good group this is!!

72, Scott w3cv

At 12:42 AM 8/23/98 -0400, you wrote:

>
> Hi Gang,
> Im very happy to have worked a new country!!! FR5DD, Reunion.
>Who says the bands are dead?? ;-))
> I wonder if anyone might be able to help me with this address?
>I have the correct mailing address but dont have the Country Prefix
>to put under it. RAC Callbook says the QSL goes to France but
>my logging program says the QSL goes to Africa?
>Does anyone know for sure??
> Any help will be appreciated.
>
> Scott W3CV FM19
>

Date: Sat, 22 Aug 1998 22:51:01 -0700
From: "Bill Todd" <bill@willapabay.org>
To: <nwq-1@scn.org>
Cc: <qrp-1@Lehigh.EDU>
Subject: [18179] NERDS Contest - Antenna ideas?
Message-ID: <002101bdce5a\$03e28fc0\$164ffbce@default>
MIME-Version: 1.0
Content-Type: multipart/alternative;
 boundary="-----=_NextPart_000_001E_01BDCE1F.56233D60"

This is a multi-part message in MIME format.

-----=_NextPart_000_001E_01BDCE1F.56233D60
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

Hello Group(s) -=20

I have been pondering what kind of antenna I should build for the 0/12 =
NERDS contest, using only 200 feet of wire - something that will provide =
me with the MOST gain on 20 meters. =20

Wire Beam: A long wire beam is out...right? Not long enough.

Wire Yagi: I would have plenty of wire to build a 3 or 4 element wire =
yagi for 20 meters, though the bandwidth would be fairly narrow. Yet, =
it would be plenty wide enough to cover the standard QRP operating freqs =
on 20 meters.

Phased Verticals: There's a thought. Even a pair of wires, say - =
suspended by a line, might do the trick.

Any suggestions folks?

CUL, Bill-N7MFB
<http://www.willapabay.org/~bill>
ICQ me @ 8926298

-----=_NextPart_000_001E_01BDCE1F.56233D60
Content-Type: text/html;
 charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

<!DOCTYPE HTML PUBLIC "-//W3C//DTD W3 HTML//EN">
<HTML>
<HEAD>

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<META content=3Dtext/html; charset=3Diso-8859-1 =
http-equiv=3DContent-Type>
<META content=3D'"MSHTML 4.72.3110.7"' name=3DGENERATOR>
</HEAD>
<BODY bgColor=3D#ffffff>
<DIV><FONT color=3D#000000 size=3D2>Hello Group(s) - </FONT></DIV>
<DIV><FONT color=3D#000000 size=3D2></FONT>&nbsp;</DIV>
<DIV><FONT size=3D2>I have been pondering what kind of antenna I should =
build for=20
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<DIV><FONT size=3D2></FONT>&nbsp;</DIV>
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<DIV><FONT size=3D2></FONT><FONT color=3D#000000 =
size=3D2></FONT>&nbsp;</DIV>
<DIV><FONT color=3D#000000 size=3D2>Wire Yagi:&nbsp;</FONT> I would have plenty =
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<DIV><FONT size=3D2>Any suggestions folks?</FONT></DIV>
<DIV><FONT size=3D2></FONT>&nbsp;</DIV>
<DIV><FONT size=3D2>CUL, Bill-N7MFB</FONT></DIV>
<DIV><FONT color=3D#000000 size=3D2><A=20
href=3D"http://www.willapabay.org/~bill">http://www.willapabay.org/~bill<=
/A><BR>ICQ=20
me @ 8926298</FONT></DIV></BODY></HTML>
```

-----=_NextPart_000_001E_01BDCE1F.56233D60--

Date: Sat, 22 Aug 1998 23:01:57 -0700
From: "Bill Todd" <bill@willapabay.org>
To: <nwq-1@scn.org>
Subject: [18180] NERDS Ideas #2

Message-ID: <004201bdce5b\$8a6284a0\$164ffbce@default>
MIME-Version: 1.0
Content-Type: multipart/alternative;
boundary="-----_NextPart_000_003F_01BDCE20.DE03ACA0"

This is a multi-part message in MIME format.

-----=_NextPart_000_003F_01BDCE20.DE03ACA0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

I need new glasses!

"0/12" is supposed to read "9/12". Heck, the two keys ARE pretty close =
together (ha).

CUL, Bill-N7MFB
<http://www.willapabay.org/~bill>
ICQ me @ 8926298

-----=_NextPart_000_003F_01BDCE20.DE03ACA0
Content-Type: text/html;
charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

<!DOCTYPE HTML PUBLIC "-//W3C//DTD W3 HTML//EN">
<HTML>
<HEAD>

<META content=3Dtext/html; charset=3Diso-8859-1 =
http-equiv=3DContent-Type>
<META content=3D'"MSHTML 4.72.3110.7"' name=3DGENERATOR>
</HEAD>
<BODY bgColor=3D#ffffff>
<DIV>I need new glasses!</DIV>
<DIV> </DIV>
<DIV>"0/12" is supposed to read =
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ICQ=20
me @ 8926298</DIV></BODY></HTML>

-----=_NextPart_000_003F_01BDCE20.DE03ACA0--

Date: Sat, 22 Aug 1998 22:43:34 -0800
From: "Jim Larsen (AL7FS)" <larsennc@alaska.net>
To: "qrp-1 @lehigh.edu" <qrp-1@Lehigh.EDU>
Subject: [18181] AL7FS and CQC SUMMER QSO Party + ICQ
Message-ID: <35DFBA15.77369C53@alaska.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Greetings from Alaska,

I hope to work at least someone tomorrow in the CQC SUMMER QSO Party. The challenge is laid out in the following N4 prediction for Auroral zone. N4 means ugly but does not necessarily mean no contacts. Alan (MBI) in Seattle, I sure hope you are there. Remember earlier this summer when you were my only contact in a contest? (BTW, Alan, you had a good signal on 40 meters tonight.)

PART I. SUMMARY 23/0000Z TO 23/0600Z AUG 98.
FORECAST 23/0600Z TO 23/1200Z AUG 98.

		QUADRANT			
		I	II	III	IV
		0 TO 90W	90W TO 180	180 TO 90E	90E TO 0
REGION	POLAR	N4	N4	N5	N5
	AURORAL	N4	N4	N4	N4

FWIW, I think KL7CC is starting to get interested in QRP. He was on 14.062.13 tonight working K6WG/QRP (439 at my QTH). Jim has two elements on 40 meters at about 50 or maybe 60 feet. I will be the "also ran" with his station on the air but that's ok.

I'm rambling so I will sign clear and see you folks in the morning. Any new ICQ numbers for QRPers available? I am ICQ 11022915. I notice KD5CKP, Tim, is on the computer tonight from MS.

73, Jim, AL7FS
Anchorage, Alaska

Date: Sat, 22 Aug 1998 22:50:27 -0800

From: "Jim Larsen (AL7FS)" <larsennc@alaska.net>
To: "qrp-1 @lehigh.edu" <qrp-1@Lehigh.EDU>
Subject: [18182] AL7FS correction
Message-ID: <35DFBBB3.5423F31D@alaska.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

KL7CC was on 7.042.13 with N6WG/QRP. CC's beam is a two element on 40 meters, not 20 meters.

I had the frequency and the callsign wrong. Sheesh! What was I thinking?

73, Jim, AL7FS

Date: Sun, 23 Aug 1998 04:20:22 EDT
From: we6w@juno.com (Ed Loranger)
To: larsennc@alaska.net
Cc: qrp-1@Lehigh.EDU
Subject: [18183] Re: AL7FS correction
Message-ID: <19980823.011853.8151.1.we6w@juno.com>

Wow! I just came in from the garage after working
KL7CC/Jim 459 both ways on 40 meters!

I download my email and read this! Neat surprize
qso for me.

-Ed

72, Ed WE6W QRP-Z#106 <http://www.qsl.net/we6w>
Enjoying Ham Radio every day! Santa Rosa, CA.

On Sat, 22 Aug 1998 22:50:27 -0800 "Jim Larsen (AL7FS)"
<larsennc@alaska.net> writes:
>KL7CC was on 7.042.13 with N6WG/QRP. CC's beam is a two element on 40
>meters, not 20 meters.
>
>

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the keying with 1/2 and a side tone with the other half. Relay output--or transistor output--or you can go to optoisolation used on many circuits. Be sure to mount the source and detector "LEDs" in tubes or tunnels to keep out ambient light, which can create false triggering. (Lots of IR in ambient light.)

For the keyer version, I used a Curtis 8044, but you would want to update that. Used some self-sticking thin stock of stainless steel as mirrors for the IR beam for the keyer, since dot and dash have to be kept separate. Made both vertical beams for standard side-to-side keying and horizontal beams for non-standard "finger drumming" keying (which I found more restful).

There has been a version of the straight key at W1AW, but it may be gone by now. Had some very good mail from older hams on the straight key, where a variety of conditions prevented the use of a spring-loaded key. No springs, no back pressure, better control for many folks.

Marshall Emm was looking into the possibility of a production straight key (I hand made oak cases for mine--along with some other odd construction) with an injection molded case, but silence suggests that may not have been economically feasible. Start-up costs on anything of this order can elevate the unit price too high.

I made mine for battery and for wall transformer use. I suspect updating in terms of minimal current to get the job done is in order.

The QST CDRom for 92 and 93 should have all the details. If you make one, make it better than my prototypes, since new chips and techniques abound.

Several years ago, the idea was circulated among the Morse 2000 folks, but between publication and circulation, some company began producing something similar for the handicapped to use, so development in that direction was thwarted. Incidentally, those truly interested in Morse may wish to follow the doings of the Morse 2000 folks, who are using the technique effectively as a handicapped input for more general computer and computer-controlled functional use. Their web site is linked from mine.

Hope this gives enough info to get those interested started toward further developments.

-73-

LB, W4RNL

L. B. Cebik, W4RNL	/\	/\	*	/	/	/	(Off) (423) 974-7215
1434 High Mesa Drive	/	\	\	----	/	---	(Hm) (423) 938-6335

Knoxville, Tennessee /\ \ \ \ / / || / (FAX) (423) 974-3509
37938-4443 USA / \ \ \ \ || cebik@utk.edu
URL: http://web.utk.edu/~cebik/radio.html

Date: Sun, 23 Aug 1998 08:32:19 -0400
From: Joseph Mikuckis <k3chp@erols.com>
To: qrp-1@Lehigh.EDU
Subject: [18186] Tunnel Diodes
Message-ID: <35E00BD3.22A@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Does anyone know of a souce for tunnel diodes?

Joe, K3CHP
k3chp@erols.com

Date: Sun, 23 Aug 1998 08:35:23 EDT
From: ARDUJENSKI@aol.com
To: bill@willapabay.org, owner-qrp-1@Lehigh.EDU, qrp-1@Lehigh.EDU, nwq-1@scn.org
Subject: [18187] Re: NERDS Contest - Antenna ideas?
Message-ID: <39016a01.35e00c8c@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

Bill,
For this contest where you don't have much time I really think the INVERTED
VEE 33 ft per leg with a 20-30ft apex and a REFLECTOR will be your best best
and using 300 ohm feed. You will get the advantage of both horizontal and
vertical polarization. The REFLECTOR is attached to the same point on the apex
but insulated from the radiating element. The radiating element vee's forward
and the reflektor vees back. The REFLECTOR is about 5 percent longer. Can't
lose with this one...a real winner.

What do you think?
Alan KB7MBI

Date: Sun, 23 Aug 1998 06:16:28 -0700 (MST)
From: Chris Trask <ctrask@primenet.com>
To: Joseph Mikuckis <k3chp@erols.com>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [18188] Re: Tunnel Diodes
Message-ID: <Pine.BSI.3.96.980823061227.5634A-100000@usr09.primenet.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Sun, 23 Aug 1998, Joseph Mikuckis wrote:

> Does anyone know of a souce for tunnel diodes?
>
> Joe, K3CHP
> k3chp@erols.com
>

Germanium Power Devices
300 Brickstone Sq.
Andover, MA 01810

Tel: (508) 475-5982
Fax: (508) 470-1512

What's all this
/ extinct stuff, anyhow? /
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Circuit Design for the
RF Impaired

Chris Trask / N7ZWY
Principal Engineer
ATG Design Services
P.O. Box 25240
Tempe, Arizona 85285-5240

Technical Editor,
QRP Quarterly
QRP ARCI 9464

Email: ctrask@primenet.com
<http://www.primenet.com/~ctrask>

Graphics by Loek Frederiks

Date: Sun, 23 Aug 1998 09:29:55 EDT
From: n4so@juno.com (charles k brown)
To: qrp-l@Lehigh.EDU
Subject: [18189] dB Loss for Coax Connectors
Message-ID: <19980823.132324.4831.6.n4so@juno.com>

Specifications are for Maximum and in the Gigahertz range.

Insertion loss for coax connectors
Page 24.34 in the ARRL Handbook (1996)
Here are some examples for BNC and N adaptors and connectors from Chapter 24.
BNC insertion loss: 0.2 dB max at 3 GHz
N insertion loss: 0.15 dB max at 10 GHz

The PL-259 and SO-239 are not specified for HF.
--Guessing it would be very low (or close to zero at high frequencies?).
The specific manufacturer would know.

Ken
N4SO@juno.com
Mobile, AL

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Date: Sun, 23 Aug 1998 09:50:26 EDT
From: MNHopkins@aol.com
To: 50mhz@qth.net, DrakRat@aol.com
Cc: Boatanchors@theporch.com, QRP-L@Lehigh.EDU,
Glowbugs@piobaire.mines.uidaho.edu, strained@juno.com
Subject: [18190] FLMA, Frank back (just long enough)
Message-ID: <87c1c8cd.35e01e24@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

"What is THIS?," he demanded.

I am never ready for these visits. He broke me once on 6M CW, while I was sending at 20, and asked QRQ. Another time he showed up at a Fort Worth rummage sale in a disguise buying 815s, and one night he broke me on CB groundwave as I tested a Preisident Fillmore. That time he was in Houston, 250mi away, and got to 11M by killing one of his push-push 8877s. This time I am peacefully digging thru a box of "as is" at a broadcast radio club outdoor event. He can always find me and I am never ready.

"Hello, Frank," I said hollowly. I turned to see that he was not in his "good buddy" disguise, but I have no way to know if this is the real Frank. Today he is of medium to tall stature with roundish black-rimmed glasses, starched shirt, fore-in-hand loose at the collar, and wide lapel brown jacket, which matched his pleated trousers, over one arm. Natty, I thought. "Going to Church?" I asked, knowing it a mistake as I said it as anything I say seems to give him an opening.

"You need to go to Confession," he said. "Get rid of the Sin of Appliance Operating and take up the narrow path of home radio construction so you will be ready when the time of wailing and grinding teeth arrives." He needed not to elaborate as I know his pitch: He and his friends are mad about 5 Meters and plan to take it back when the FCC moves TV up. They will not visit the spectrum auction -- just move in with rigs and techniques perfected on Six Meters. They call themselves, mellow-dramatically to my ear, The Five Meter Liberation Army (FLMA).

"QSL, Frank," said I, "I was just looking in here for a ceramic octal socket."

"I'll get you one out of the car," he answered, motioning to a Frazier what was gathering a crowd of ogglers. It matched his jacket. "But what is this?" he again demanded.

"Four little ducks and some sheep?" I asked, looking at the proffered device, "I think it is a baby monitor."

"How does it work?" he demanded, moving closer.

"Triples from a 16 mc rock, Super-regenerative receive, 100mW max.," I said.

"Forty nine magacycles?" he demanded? Forty-nine?" (If Frank fell into his final, broke the envelope and soaked his spats in blood, he would still not say Hertz.)

I was going to say more but Frank muttered, "thanks" and headed off to the Frazier, ignoring the Atwater-Kent types momentarily turned car buffs and hiding the baby monitor under his jacket on the upholstered seat beside him. As he drove away I wondered how he got away with plates that old...and where

to find the ceramic octal socket Frank forgot to give me.

73 de ab5L, michael in dallas, student of Tecraft and International Crystal
(ICM) ham products and mementoes of Six Meters' Golden Age: 1957-58

Michael Hopkins

Box 226841

Dallas, TX 75222 MNHopkins@AOL.com

Date: Sun, 23 Aug 1998 07:35:23 -0700
From: Jay & Jackie <jayboy@bendnet.com>
To: qrp-1@Lehigh.EDU
Subject: [18191] RE: Surface mount
Message-ID: <3.0.1.32.19980823073523.006a2c14@mail.bendnet.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi:

I guess I'm one step behind, but could someone explain "surface mounting"?
I have been under the impression that when you jam the part through the
board, flip it over and solder you "surfaced mounted" that part.

Jay, W6JDB/7ending a wonderful summer in Bend, Or.

Date: Sun, 23 Aug 1998 10:39:35 EDT
From: w4bws@juno.com (Donald E Sanders)
To: tahrens@inetport.com
Cc: qrp-1@Lehigh.EDU
Subject: [18192] Re: S&S "M1" marches on ...
Message-ID: <19980823.093953.5159.0.W4BWS@juno.com>

I bet you change bands by changing band "clips"
Donald E. Sanders W4BWS
694 E. Eau Gallie Blvd. Satellite Beach, Fl 32937
407-779-0222 Fax 407-779-0830
E-mail to w4bws@juno.com
My favorite QRP rig glows in the dark

On Thu, 20 Aug 1998 23:10:24 -0500 Tim Ahrens <tahrens@inetport.com> writes:

>Is it a carbine? hehe

>Tim W5FN

>> With a name like "M1" -- designed by a military receiver

>> guru -- do you suppose this thing will have a bullet-proof

>> front end? Good chance of that, I'll bet ;)

>> 72 - Conrad Weiss - NN6CW

>

>

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Date: Sun, 23 Aug 1998 10:39:35 EDT
From: w4bws@juno.com (Donald E Sanders)
To: larsenp@cadvision.com
Cc: qrp-1@Lehigh.EDU
Subject: [18193] Re: [CW] 80 meter CW wasteland
Message-ID: <19980823.093954.5159.6.W4BWS@juno.com>

I should hope that QRP cw will bother these fellows !

Donald E. Sanders W4BWS

694 E. Eau Gallie Blvd. Satellite Beach, Fl 32937

407-779-0222 Fax 407-779-0830

E-mail to w4bws@juno.com

My favorite QRP rig glows in the dark

On Sat, 22 Aug 1998 16:00:37 +0100 Peter Larsen <larsenp@cadvision.com> writes:

>Charles Kadesch wrote:

>> slow CQ in the old Novice area just above 3.7 MHz.

>Just remember that the portion 3.72 to 3.75 is used for SSB

>nets out side of the USA.

>73 es have fun.

>Peter

>VE6YC D021WC

>

>

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Date: Sun, 23 Aug 1998 09:19:22 -0500
From: The Boices <boice@bigfoot.com>
To: "Kelly" <kelman@dialnet.net>
Cc: qrp-1@Lehigh.EDU
Subject: [18194] Re: 300 ohm twinlead connections
Message-ID: <3.0.5.32.19980823091922.0079b150@mailbox.arn.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Several folks have suggested banana plugs, relays, Molex connectors or the Radio Shack ready-made 300 ohm twinlead connects/disconnects. I didn't even know they made such an animal! I found them in the RS catalog, so I think I'll try that route first - they're only \$2 a pair.

Many thanks, guys!

73,

Mike
KM5PE
Canyon TX

Date: Sun, 23 Aug 1998 10:50:43 EDT
From: ARDUJENSKI@aol.com
To: qrp-1@Lehigh.EDU, bill@willapabay.org, nwq-1@scn.org
Subject: [18195] NERDS CONTEST ANT
Message-ID: <bc514922.35e02c44@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

BILL,
As an alternative to the INVERTED VEE with REFLECTOR how about a 1/2 wave with a reflector? We ought to try them out and get some QRP folks to listen in and see which ones work better. Time is getting short before the 12 SEPT NERDS CONTEST.
ALAN KB7MBI

Date: Sat, 22 Aug 1998 21:51:07 -0700
From: Lisa Osier <osier@northnet.org>
To: qrp-1@Lehigh.EDU
Cc: osier@northnet.org
Subject: [18196] propagation info
Message-ID: <35DF9FBB.5FBB@northnet.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

MANY TNX TO ALL WHO HAVE OFFERED INFO ON THE SUBJECT!!! THIS
LIST IS FB AND EACH TIME IVE POSTED A PROBLEM YOU HAVE RESPONDED.. MY
KUDOS TO ALL!!!!!!!

73/72s
George Osier , N2JNZ

Date: Sun, 23 Aug 1998 12:40:33 -0400
From: "John J. McDonough" <jjmcd@tm.net>
To: <w5yr@swbell.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [18197] Re: RF connector losses (was Re: 1 dB loss/gain expressed as
apercentage)
Message-ID: <199808231525.5176800@is1.tm.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

> From: George T. Baker <w5yr@swbell.net>; owner-qrp-1@Lehigh.EDU
>
> Sure makes an argument, if true, for ladder line.

As has already been covered, these values are probably high for HF, but I
sort of wonder about resistive versus reflective losses. It seems to me it
would be quite hard to fashion almost any sort of arrangement for
connecting ladder line that wouldn't result in some significant reflective
losses. How can you bring ladder line into the shack, and into the tuner,
without creating some sort of impedance bump in the line?

72/73 de WB8RCR
didileydadidah

Date: Sun, 23 Aug 1998 12:48:21 -0400
From: "John J. McDonough" <jjmcd@tm.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [18198] 72/73
Message-ID: <199808231529.5177300@is1.tm.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

The CW reflector currently has a discussion going on of the origin of 73. Apparently this has roots going back into the 1800's. But it makes me curious of the origin and history of 72!

72/73 de WB8RCR
didileydadidah

Date: Sun, 23 Aug 1998 08:41:12 -0700
From: "Frank A. West" <ke6vhm@earthlink.net>
To: <kd1jv@moose.ncia.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [18199] Re: We're too smart for 80M CW
Message-ID: <199808231537.IAA18458@scaup.prod.itd.earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Well, I for one find 75/80 meters a lot of fun. Always someone around for a chat or CW QSO in California. Yes it is better at night. The band gets noisy occasionally but is usually good here. I live in Woodcrest near Riverside and do have a little altitude (2000 ft). Also have a little over 1/2 acre so antenna size is no problem. I currently have a horizontal dipole up for 80m and will have an inverted V up soon.

\$0.02 de Frank KE6VHM

> From: Steven Weber <kd1jv@moose.ncia.net>
> To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
> Subject: Re: We're too smart for 80M CW
> Date: Saturday, August 22, 1998 3:24 AM
>
> The problem with 80 is a decent antenna is just too big! While most
> everyone can fit a 40 dipole one way or another in thier available space,

> 80 is often out of the question.
>
> But even so, we occasionally listen to 80 and don't hear much on CW and
> quite a few crazies trading insults on 75, so we loose what ever
incentive
> we might have to try and figure out some way of getting on 80. Then since
> we don't bother to get on 80, no one else hears activity, so they don't
> try... classic vicious circle....
>
> 72.
>
>
> Steve, KD1JV....In the White Mountains of New Hampshire
>
> "Melt Solder"
>

Date: Sun, 23 Aug 1998 10:30:42 -0500
From: applitech@mcg.net (Claton Cadmus)
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [18200] Re: RF connector losses
Message-ID: <00a901bdceac\$a7950560\$a10a5e2c@groucho>

Think about this for a minute. If a PL-259/barrel connector/PL-259 splice in a piece of coax had any significant loss, where does the energy go? It's into heat. There are Hams, probably none on this list, that run 1000 watts through this kind of connection. 1 dB loss in the whole PL-259/barrel connector/PL-259 splice would be a couple hundred watts! Enough to melt the solder and coax and self-destruct.

I once called HQ to ask if they had any info on PL-259 connection losses and they did not. The engineer I talked to was of the impression the losses were extremely low for the very reasons I mention above.

Hope this Helps.

73 de KA0GKC Claton Cadmus

cla@mcg.net

MNQRP #1

Minnesota QRP'ers we're looking for you!

Email me or visit this page <http://www.qsl.net/mnqrp>

Date: Sun, 23 Aug 1998 08:08:03 -0600
From: tom whalen <whalen@swcp.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [18201] CQC contest today
Message-ID: <35E02243.459E@swcp.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

QRP-Ler's!

Today is the CQC Summer QSO Party.

>From 1800-2359z

Exchange: RST,State/Province/Country, First name, and member number, pwr
out if not.

I will be operating my Emtech 20 in memory of Roy Gregson, a fine
gentleman whom I have never met but have had numerous chats on the
computer and on the phone. He was always willing to help me with the
little problems I had with my rig. So a big 72 to you Roy!

Hope to work a bunch of qrp'er's today.

72, Tom WB5QYT/Albuquerque/Emtech20 and a extended zepp

Date: Sun, 23 Aug 1998 12:22:52 -0400
From: Tracy@bytemark.com (Tracy)
To: "QRP-L" <qrp-l@Lehigh.EDU>
Subject: [18202] Front Ends Revisited
Message-ID: <000f01bdceb2\$46e73520\$57751ad1@titan>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I'm re-thinking my alignment toward front-end filters. No pun intended.

My recent experiment with 'high' side and 'low' side mixing has given me a
few things to consider about images and the overall scheme of a multi-band
switched front-end filter. (Did I get the dashes in the right place?)

It seems that a small group of low-pass filters and high-pass filters should

be able to switch in and out to make a fairly reasonable assortment for multiband use. Let's face it, even though the receiver is general coverage, the filters need only be optimized for the bands mostly used, right???

Think about it -- using a 9 (9.0015 or 8.9985) MHz IF, if you want to listen to 7.04 MHz you can set the VFO to either 1.96 MHz or 16.04 MHz. With 1.96 you have an image at 10.96, and with 16.04 you have an image at 25.04 MHz. (You have to change the BFO frequency to compensate for the opposite sideband when changing from 'high' side to 'low' side mixing.) It's obvious that the same band-pass filter would work for both, but why build a separate bandpass filter for each band?? It seems that switching a few low and high pass filters should cover about anything.

The ARRL handbook has tables for Chebychev and Elliptical filters, but they seem to stop at 14 MHz, and many do not go much past 10 MHz. I'm not the mathematical genius I'd like to be, and I've not yet tackled filters for understanding so I have no idea how to scale them.

I've chosen two of the elliptical high-pass filters for the lower bands, but would like one that cuts off at about 20 MHz or so. The ones in the book look like they have good response for my application, but stop at about 9 MHz.

I've chosen a few of the 7 element Chebychev lowpass filters for the bands up to 14 MHz, but I need some for the bands up to 50 MHz. Between say, three high-pass filters and 5 low-pass jobs, I should be able to get 10 bands cleanly and with good output. What say?

Seems to me like if I do this right, I should be able to use the same filters for transmit and receive, as long as I build them to handle the transmit power. It sure would be easier if the filters could just 'sit' in the antenna path for both transmit and receive!

I'm looking for comments and designs, schematics, examples, arguments, etc., as I build this phase of my little computer radio. I think a filter design like this would be applicable to most any general coverage rig, and surmise that there is one out there waiting for me to adapt for my purpose ...

Thanks again, the best group in the world!!
Tracy N4LGH
QRP-L #1453

Date: Sun, 23 Aug 1998 09:29:49 -0700
From: Jay & Jackie <jayboy@bendnet.com>

To: qrp-1@Lehigh.EDU
Subject: [18203] RE: Surface mount info..thanks
Message-ID: <3.0.1.32.19980823092949.006a11b8@mail.bendnet.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Thanks for the information on surface mounting....And I bought a magnifying light for the KC2 install in my Sierra....Guess I better get new glasses for this winters building!

Jay W6JDB/7

Date: Sun, 23 Aug 1998 10:27:47 -0600
From: "Marshall Emm" <mgemm@mtechnologies.com>
To: "John J. McDonough" <jjmcd@tm.net>, qrp-1@Lehigh.EDU
Subject: [18204] Re: 72/73
Message-ID: <199808231627.KAA01333@edison.chisp.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

Hi, John--

>>But it makes me
curious of the origin and history of 72!<<

72 is of comparatively recent vintage, and is specifically a "QRP version" of 73. No idea who first started using it, but it has more or less caught on in the QRP fraternity.

To the extent that "73" means "Best Wishes," one would assume 72 means "QRP Wishes," or perhaps "Minimum Wishes Necessary to Get the Job Done." Or something.

73
Marshall Emm
N1FN/VK5FN
n1fn@MorseX.com
Morse Express
"Everything for the Morse Enthusiast"
<http://www.MorseX.com>
(303)752-3382

--

Date: Sun, 23 Aug 1998 09:42:13 -0700
From: "Bill Todd" <bill@willapabay.org>
To: <ARDUJENSKI@aol.com>
Cc: <nwq-1@scn.org>, <qrp-1@Lehigh.EDU>
Subject: [18205] Re: NERDS Contest - Antenna ideas?
Message-ID: <000601bdceb4\$fbff7560\$174ffbce@default>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

>Bill,
>For this contest where you don't have much time I really think the INVERTED
>VEE 33 ft per leg with a 20-30ft apex and a REFLECTOR will be your best
best

Really? I had not thought of that one.
One question: what kind of separation are we talking about at the ground
(tie-down) area? That is, should the ends be separated by 33 feet as well?
Or does it really matter?

CUL, Bill-N7MFB
<http://www.willapabay.org/~bill>
ICQ me @ 8926298

Date: Sun, 23 Aug 1998 09:47:04 -0700
From: "Bill Todd" <bill@willapabay.org>
To: <ARDUJENSKI@aol.com>
Cc: <nwq-1@scn.org>, <qrp-1@Lehigh.EDU>
Subject: [18206] Re: NERDS CONTEST ANT
Message-ID: <000f01bdceb5\$a9b5ac60\$174ffbce@default>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

>BILL,
>As an alternative to the INVERTED VEE with REFLECTOR how about a 1/2 wave

with a reflector? We ought to try them out and get some QRP folks to listen in and
>see which ones work better. Time is getting short before the 12 SEPT NERDS
>CONTEST.
>ALAN KB7MBI

Right you are Alan. Since we have to build the antennas on site, it would only make sense to build a "test" antenna before hand and get some signal measurements.
I think the inverted VEE (ONE support line) would take less time to erect than two separate elements (i.e., TWO support lines).

CUL, Bill-N7MFB
<http://www.willapabay.org/~bill>
ICQ me @ 8926298

Date: Sun, 23 Aug 1998 08:48:35 -0800
From: "Jim Larsen (AL7FS)" <larsennc@alaska.net>
To: Ed Loranger <we6w@juno.com>, qrp-l@Lehigh.EDU
Subject: [18207] KL7CC active on 40 mtr QRP.
Message-ID: <35E047E2.740CCE98@alaska.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

This is good. Now we are going to see some real Alaska action. :-) I am glad the QRP URLs I sent to Jim Friday seem to have fired his interest. My guess is that he will show up on QRP-L soon if he is not here already. I added the entire welcome text for QRP-L to the end of the message with the URLs.

KL7CC, Jim, has been a long time Elmer, VEC volunteer and leader, sponsors Code practice 4 or 5 times a day on 80 meters for new hams (7 days a week), is looking for a simple receiver for new prospective hams to build to use for code practice reception, president of QCWA in Anchorage, Newsletter editor for the South Central Amateur Radio Club, and more I can't think of just now. I would love to see Jim get active in QRP.

73, Jim, AL7FS
Anchorage, Alaska

Ed Loranger wrote:

> Wow! I just came in from the garage after working
> KL7CC/Jim 459 both ways on 40 meters!

Date: Sun, 23 Aug 1998 12:50:29 EDT
From: we6w@juno.com (Ed Loranger)
To: MNHopkins@aol.com
Cc: qrp-1@Lehigh.EDU
Subject: [18208] Re: FLMA, Frank back (just long enough)
Message-ID: <19980823.094846.10431.0.we6w@juno.com>

Excellent Michael! You are a natural.
Thanks. And I hope you have some more stories
for the Fox Literature this winter.
-Ed
72, Ed WE6W QRP-Z#106 <http://www.qsl.net/we6w>
Enjoying Ham Radio every day! Santa Rosa, CA.

On Sun, 23 Aug 1998 09:50:26 EDT MNHopkins@aol.com writes:

>"What is THIS?," he demanded.
>
>I am never ready for these visits. He broke me once on 6M CW, while I
>was
>sending at 20, and asked QRQ. Another time he showed up at a Fort
>Worth
<snip>
>Meters. They call themselves, mellow-dramatically to my ear, The Five
>Meter
>Liberation Army (FLMA).
<snip>
>"I think it is a a baby monitor."
>
>"How does it work?" he demanded, moving closer.
>
>"Triples from a 16 mc rock, Super-regenerative receive, 100mW max.," I
>said.
>
>"Forty nine magacycles?" he demanded? Forty-nine?" (If Frank fell
>in
<snip>
>hiding the baby monitor under his jacket on the upholstered seat
<snip>

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Or call Juno at (800) 654-JUNO [654-5866]

Date: Sun, 23 Aug 1998 12:50:29 EDT
From: we6w@juno.com (Ed Loranger)
To: qrp-1@Lehigh.EDU
Subject: [18209] Re: RF connector losses
Message-ID: <19980823.094847.10431.1.we6w@juno.com>

Gang, back in 1995 while working as a contractor for a major electronics company I spent over 3 months making TDR measurements and working with a cable /connector manufacturer. Nothing in the industry worked for 75 Ohm, SMB for our application.

I had discovered some lazy person had substituted 50 Ohm connectors at the end of the mini 75 Ohm coax! I guess they (lazies :) must've figured the loss/reflection of the 50 Ohm connector wasn't a concern at up to 2 GHz only. Well, it IS a concern for the customer.

Let me just say, I ended up designing a connector for this company. The big trick was providing an air space between the insulating teflon and the center pin! Also the teflon supports on the very tip and middle section of the center pin.

I have also worked on 40 GHz custom phase matched switching boxes for a customer. Just me and my 8510C for 4 days alone in the lab. (Try S21/S12 measurements with amplifiers in the path and about 40 paths and the need for only 1 hookup method! Then there's dynamic range/isolation! Geeesh!)

Anyone ever add shrink-tubing over their Semi-rigid .141 coax to improve thermal stability!

Use quality connectors, understand their limitations and verify they meet specifications periodically. They go bad.

-Ed

72, Ed WE6W QRP-Z#106 <http://www.qsl.net/we6w>

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Or call Juno at (800) 654-JUNO [654-5866]

Date: Sun, 23 Aug 1998 12:02:34
From: Roger Braker <msebrakr@telepath.com>
To: qrp-1@Lehigh.EDU
Subject: [18210] 6 meter HB
Message-ID: <3.0.5.16.19980823120234.4aa7cab8@telepath.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi Guys,
First I'de like to thank everybody eho gave me suggestions on my former post. Also I have changed my philosiphy has changed again. I as of right now am looking at two different choices. Bruce muscolline suggested making a dual conversion RX. Start with a 36 mhz vxo take that away from 50 to get 14. Then I could just run that output into a 20 meter rx or go for a 3.3 mhz vfo and have a 10.7 mhz IF. The reason I go for a 10.7 mhz IF is cuz I can get those xtals really cheap from this guy I know. The other think I'm looking at is basically what mfj did with theirs. They took a 34 mhz vxo and beat it with a 6 mhz VFO to get 40. They beat this with the incomming 50 mhz sig to get 10 mhz and used that as their IF. !0 mhz goes to the prduct detecor and BOOM, audio. I 've thought about that but changing the IF to 10.7. Would it be better to build the transmitter or Reciever first? I'm going tomarrow to by xtals. I'm going to order some stuff from dans(transistors and torids mostly) and electronics goldmine. Electronics goldmine has some transistors that are almost direct replacements to the 2n3904...50 for \$1! I'm ordering some blank pcbs. Thanks for all the help. When I get this thing figured out I'll post results to the list and put it on my website.

73,
Arnold kd5ckh

Date: Sun, 23 Aug 1998 10:14:51 -0700

From: "Bill Todd" <bill@willapabay.org>
To: "Walt Amos" <waltk8cv@ameritech.net>
Cc: <nwq-1@scn.org>, <qrp-1@Lehigh.EDU>
Subject: [18211] Re: NERDS Ideas #2
Message-ID: <006701bdceb9\$8b502940\$174ffbce@default>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

>You are a nerd aren't you? Nerds don't need GLASSES, they know it
>all!!
>
>Walt k8cv
Hi Walt -

Well, you have a point there. What REALLY happened was that my slide rule was leaning up against my computer monitor, and my pocket protector broke, causing one of my cheap pens to leak on my starched white shirt.

THAT was the real reason I confused a couple of the keys (ha).

Bill
<http://www.willapabay.org/~bill>
ICQ me @ 8926298

Date: Sun, 23 Aug 1998 13:29:18 EDT
From: kh6b@juno.com (Dean W Manley)
To: qrp-1@Lehigh.EDU
Cc: bill@willapabay.org, kh6b@juno.com
Subject: [18212] Re: NERDS Contest - Antenna ideas?
Message-ID: <19980823.073133.5327.1.kh6b@juno.com>

Hello Bill and Group:

May I suggest a simple antenna that has bi-directional gain? I recommend the EDZ at just 88 feet long for the 20-meter band. The one I use is installed as a horizontal dipdole and fed in the center with ladder line about 45 feet long. Bi-directional gain (?dBd) on 20 meters AND a multiband antenna that covers 80 thru 10. Just insert an ATU between your rig and the near end of the feed line.

FYI: HAMCALC by VE3ERP addresses the EDZ and the multiband antenna in his software.

Aloha, Dean KH6B

Date: Sun, 23 Aug 1998 13:29:18 EDT
From: kh6b@juno.com (Dean W Manley)
To: qrp-1@Lehigh.EDU
Cc: kh6b@juno.com
Subject: [18213] Re: HI QSO Party and NQ6RP
Message-ID: <19980823.073133.5327.0.kh6b@juno.com>

Hello group. Corrected info:

Re HI QSO Party, per WorldRadio, August 1998:

1600z 29 Aug. to 2200z 30 Aug.
160-microwaves, CW and SSB,
For stations outside HI, work the 5 counties:

Kalawao, Kauai, Hawaii, Honolulu and Maui.

(Honolulu is both City and County, includes the island of Oahu and the many Leeward Islands with the exception of Midway Island. Also, Kalawao County is a peninsula on the north side of the Island of Molokai. And Molokai is part of Maui County)

Sorry for the misinfo.

Aloha, Dean KH6B

Date: Sun, 23 Aug 1998 13:32:44 -0400
From: Steve <smann@advi.net>
To: mgemm@mtechnologies.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [18214] Re: 72/73
Message-ID: <35E0523C.5D9F@advi.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

> >>But it makes me
> curious of the origin and history of 72!<<
>

I am not an authority on these things -- others may have additional information.

I was under the impression that some of the numbers were used in landline telegraph service to speed up messages.

For instance, in the newspaper business, articles were often send in parts over the wire. When the last segment was sent, the number 33 was attached to the end to indicate that it was the end of the story.

When I worked as a copyboy for the Allentown (PA) Morning Call in the late 1960s, it was still being used on the local teletype machine transmissions.

I've never seen a list of all the meanings of the numbers. I think the ARRL used to list some of the common ones in amateur use on an auxiliary page in the ARRL Logbook that they published back in the '60s.

Of course, just as the 'Morse' code we use on the ham bands is different from the Morse that was used in landlines, the numbers may mean different things in ham useage than they meant in the old commercial telegraph useage.

73!

Steve N4EY

ARCI #3594

Zombie Badge #257 (a PRIME number!)

Date: Sun, 23 Aug 1998 10:05:34 -0800
From: "Jim Larsen (AL7FS)" <larsennc@alaska.net>
To: "qrp-1@lehigh.edu" <qrp-1@Lehigh.EDU>
Subject: [18215] AL7FS whines again. :-) CQC contest #1
Message-ID: <35E059EE.C2E03459@alaska.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Well, the pressure is too much for me on the CQC contest. There are two (yes, two) signals on the 20 meters from 14.000 to 14.065. Time to take a break. I will check again in 30 minutes.

Dang those N4 props. :-)

73, Jim, AL7FS
Anchorage, Alaska

Date: Sun, 23 Aug 1998 14:09:34 -0400
From: Ed Tanton <n4xy@att.net>
To: jayboy@bendnet.com
Cc: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [18216] RE: Surface mount
Message-ID: <3.0.5.32.19980823140934.00c625c0@postoffice.worldnet.att.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

///snip

> I guess I'm one step behind, but could someone explain "surface mounting"?
> I have been under the impression that when you jam the part through the
> board, flip it over and solder you "surfaced mounted" that part.
>
> Jay, W6JDB/7ending a wonderful summer in Bend, Or.
>

///snip

Hi Jay... well, yes, thru-hole mounting does mount the part on the top surface... but at the expense of a small part of the bottom surface as well. Current surface mounting techniques allow the use of BOTH sides simultaneously, using thru-hole plating to achieve communication between the sides.

With the much higher component density achieved by the size reduction of SMT components, and the tremendously increased area available for components on the second (bottom) side, the overall component density is VERY much higher than with regular thru-hole components.

SMT techniques require more care by the hobbiest, but greatly lend themselves to machine mounting, and wave soldering, greatly reducing manufacturing costs. Furthermore, they are much more "green" than wire-lead-mounted components, saving on manufacturing materials to start with, wasted materials during mounting (no wire leads and a lot less solder), manufacturing efforts, as well as saving the on overall size of whatever unit.

You can work reasonably well with ordinary fine-sized tools, but it is very nice to have some kind of hot-air soldering/desoldering device, and a

QRP-L #1453

>
> Hi Guys,
> First I'de like to thank everybody eho gave me suggestions on my former
> post. Also I have changed my philosiphy has changed again. I as of right
> now am looking at two different choices. Bruce muscolline
> suggested making
> a dual conversion RX. Start with a 36 mhz vxo take that away from 50 to
> get 14. Then I could just run that output into a 20 meter rx or go for a
> 3.3 mhz vfo and have a 10.7 mhz IF. The reason I go for a 10.7 mhz IF is
> cuz I can get those xtals really cheap from this guy I know. The other
> think I'm looking at is basically what mfj did with theirs. They
> took a 34
> mhz vxo and beat it with a 6 mhz VFO to get 40. They beat this with the
> incomming 50 mhz sig to get 10 mhz and used that as their IF. !0 mhz goes
> to the prduct detecor and BOOM, audio. I 've thought about that but
> changing the IF to 10.7. Would it be better to build the transmitter or
> Reciever first? I'm going tomarrow to by xtals. I'm going to order some
> stuff from dans(transistors and torids mostly) and electronics goldmine.
> Electronics goldmine has some transistors that are almost direct
> replacements to the 2n3904...50 for \$1! I'm ordering some blank pcbs.
> Thanks for all the help. When I get this thing figured out I'll post
> results to the list and put it on my website.
>
>
> 73,
> Arnold kd5ckh
>
>
>
>

Date: Sun, 23 Aug 1998 11:20:19 -0700
From: Dave Willey <dave@cds1.net>
To: QRP-L <qrp-l@Lehigh.EDU>
Subject: [18218] Bench RF signal source...MFJ - 249?
Message-ID: <35E05D63.4E50@cds1.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi All,

Since I've been playing around with the "5 Watts from 10 2N2222" QRPp Magazine project, I've been thinking about some source of RF for testing low power amps after I get all of the parts together. Hate to use my HW-8 as a RF source, just incase I screw up the amp. And the HW-8 only covers a few of the hf bands.

(Amp RF output into a 50 ohm dummy load.)

I've been wanting to ask the list if anyone knows about a kit/schematic for a 3 - 30 MHz at 500 mA signal generator for bench work?

Then it just came to me...I already own a MFJ-249 SWR analyzer. Why couldn't I use this for a source?. And it has a built in freq. meter to boot.

Any reason this wouldn't work? What kind of signal bandwidth @ a given freq. does it have? I don't have a QRP power meter. What kind of mW output does it have on various ham bands?

Or would I be better off buying (I hate that word!) or building a bench grade source? (If you know of a plan/kit/or source of consumer prebuilt equipment, I'd still like to hear about it.)

Any ideas?

Dave - KD6KWM

--

To send a reply please remove "NOJUNKMAIL" from the return address, and replace "AT" with "@"

Dave Willey
e-mail: dave AT cds1.net
amateur e-mail: kd6kwm AT cds1.net
amateur packet: KD6KWM@KD6KWM.#NCA.CA.USA.NOAM

--

QRP-L #1567

Date: Sun, 23 Aug 1998 14:24:37 -0300
From: "Prof. Arnaldo Coro Antich" <inforhc@mail.infocom.etcса.сu>
To: <qrp-l@Lehigh.EDU>
Subject: [18219] RE: It works great computer receiver

Message-ID: <01bdceba\$e7816de0\$07199e03@inforhc>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

How about a more extensive posting describing the receiver !
Got a 486 motherboard running at 66 mHz and a small
122 meg hard drive...
SO TRACY... Wonder if that could be the foundation for
my next new receiver ???
Go ahead and tell us more about it
Arnie Coro
CO2KK
Host of Dxers Unlimited
Radio Habana Cuba
PO Box 6240 Habana Cuba
e-mail: arnie@radiohc.org
e-mail inforhc@mail.infocom.etecsa.cu

Date: Sun, 23 Aug 1998 14:25:17 -0400
From: Ed Tanton <n4xy@att.net>
To: w4bws@juno.com
Cc: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [18220] Re: S&S "M1" marches on ...
Message-ID: <3.0.5.32.19980823142517.00bcd9e0@postoffice.worldnet.att.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Does this mean my thumb will be-once again-in jeopardy after all these years?

///snip Donald E Sanders wrote:
>I bet you change bands by changing band "clips"
>Donald E. Sanders W4BWS
///snip

///snip Tim Ahrens <tahrens@inetport.com writes:
>>Is it a carbine? hehe
>>Tim W5FN
>>> With a name like "M1" -- designed by a military receiver
>>> guru -- do you suppose this thing will have a bullet-proof
>>> front end? Good chance of that, I'll bet ;)
>>> 72 - Conrad Weiss - NN6CW

```
///snip
```

The M1 Garand rifle was an excellent military rifle in its day, when one attempted to actually aim at things in order to to shoot them-as opposed to most of the modern "assault" weapons where one simply sprays in the general direction of choice, and thence on up into the sky. It worked well under terrible conditions, and-as far as I know-contained no plastic nor was ever subcontracted to any toy manufacturers.

Ed Tanton N4XY EMAIL: n4xy@att.net
189 Pioneer Trail
Marietta, GA 30068-3466 TEL: (770)579-3933 V/MBX/FAX

"Think you can, think you can't: either way you're right!" Henry Ford

Does this mean my thumb will be-once again-in jeopardy after all these years?

```

///snip Donald E Sanders wrote:
>I bet you change bands by changing band "clips"

```

>Donald E. Sanders W4BWS
///snip

///snip Tim Ahrens <tahrens@inetport.com writes:
>>Is it a carbine? hehe
>>Tim W5FN
>>> With a name like "M1" -- designed by a military receiver
>>> guru -- do you suppose this thing will have a bullet-proof
>>> front end? Good chance of that, I'll bet ;)
>>> 72 - Conrad Weiss - NN6CW
>>
///snip

For the benefit of the younger generation: when releasing the bolt mechanism on an M1 rifle, one inserts his thumb into the opened rifle (during an inspection or cleaning for example) and depresses a certain part within the rifle. He then immediately and expeditiously withdraws said thumb, lest the spring-loaded mechanism attempt to insert it into the chamber instead of the much more appropriate rifle cartridge it is supposed to be inserting. Typical results include certain colorful expressions and a very colorful thumbnail-which typically drops off after a while, and is properly replaced in due time. Hence the expression: "M1-Thumb".

The M1 Garand rifle was an excellent military rifle in its day, when one attempted to actually aim at things in order to to shoot them-as opposed to most of the modern "assault" weapons where one simply sprays in the general direction of choice, and thence on up into the sky. It worked well under terrible conditions, and-as far as I know-contained no plastic nor was ever subcontracted to any toy manufacturers. With a name like M-1, the S&S transceiver will have a lot to live up to.

73

Ed Tanton N4XY EMAIL: n4xy@att.net
189 Pioneer Trail
Marietta, GA 30068-3466 TEL: (770)579-3933 V/MBX/FAX

INTERESTS: QRP BoatAnchors Test Equipment Photography
CW: 99.9% Mercury Paddle # 0214 QRP to 150W: 95%

~~~~~  
"Think you can, think you can't: either way you're right!" Henry Ford  
~~~~~

Date: Sun, 23 Aug 1998 21:41:40 +0300
From: Arjen Raateland <Arjen.Raateland@vyh.fi>

To: QRP-L <QRP-L@Lehigh.EDU>
Subject: [18222] choke balun heat shrinking experience
Message-ID: <35E06264.4358@vyh.fi>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii
Content-transfer-encoding: 7bit

To all those who sent me advice on choke balun assembly and heat shrinking of course anybody else on the list, too.

A while ago I asked for advice about how to protect the ferrite beads of a choke balun. 30 beads on a piece of RG-58c. The beads are a good fit (they were either FB77-6201 or 6301, I don't have data here) (OD 9,5 mm).

In the end I figured using PVC pipe and caulking would be too much trouble, so I bought some heat shrink tubing with 'glue' inside (ID 22mm). BTW, it cost me about 12\$ for 120 cm. The walls were already quite thick in the not-shrunk state, so I was to have a good and thick protective plastic layer over the beads.

One OM advised me to shrink the tubing with steam for the neatest result. I tested this on a small piece, but my tubing didn't shrink.

Others said any heat shrink tubing will shrink under the heat from a hot air blower. I suppose what I had is just a big hair dryer and it's not hot enough, because that didn't work either.

In Finland - as opposed to Holland where I'm from - kitchens have an electric stove that I find very awkward to properly cook on, but I'm told they are afraid people will blow up their houses with gas otherwise. Anyway I was already in the kitchen making steam, so I tried the hot plate w/o the water kettle on it. That worked!

Before applying the tubing I fixed the beads in position with two stripes of hot melt glue on opposing sides along the string of beads after I had bent the cable and beads assembly in a circle. This gave the beads a slight spacing, so they don't touch eachother. After straightening the assembly the beads were kept apart by the glue and so the assembly was ready to be covered with tubing.

I tested the hot melt glue beforehand in the jet of steam where it got soft, so it should also give in underneath the hot & shrinking tubing.

I must admit the result wasn't quite as neat as I had hoped. The tubing is still a bit loose here and there. It looks like the tubing didn't shrink as much as was to be expected from the data (to 1/3d ID). The assembly is still a bit flexible which is what I had hoped for. And the

beads are protected from hard hits.

But, next time I'll take smaller size tubing so it doesn't need to shrink so much and should get a much neater result.

Conclusion: some tubing apparently shrinks in steam, but not all types do. A hair dryer (1250W) won't do with the tubing I got, either. A real hot air gun is a rather expensive for the odd shrinking job, but an electric kitchen stove will work. One should, however, get the right size tubing, hi.

73, oh2zaz

--

Arjen Raateland
Finnish Environment Institute
SAS Support
phone +358 9 4030 0350

Date: Sun, 23 Aug 1998 13:48:49
From: Roger Braker <msebrakr@telepath.com>
To: <tracy@bytemark.com>
Cc: qrp-l@Lehigh.EDU
Subject: [18223] RE: 6 meter HB
Message-ID: <3.0.5.16.19980823134849.692f1884@telepath.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 02:16 PM 8/23/98 -0400, you wrote:

><snipage>. Any word on what you're going to use for the front-end??

>Tracy N4LGH

>QRP-L #1453

That's a good question. I don't think I really know what is meant by a front end. Are you talking about the filter, an RF preamp, attunators all three, or what? I think I thought I knew what it was but when I really think about it, I don't:-) See ya guys later.

73,
Arnold kd5ckh

Date: Sun, 23 Aug 1998 01:51:40 -0700

From: Lisa Osier <osier@northnet.org>
To: qrp-1@Lehigh.EDU
Cc: osier@northnet.org
Subject: [18224] CQC CONTEST
Message-ID: <35DFD81C.2035@northnet.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

HI GANG!!!!
LOOKING FOR VICTIMS ON 7105....
ANY TAKERS??????

GEORGE OSIER N2JNZ/QRP

Date: Sun, 23 Aug 1998 15:15:59 EDT
From: ARDUJENSKI@aol.com
To: bill@willapabay.org
Cc: nwq-1@scn.org, qrp-1@Lehigh.EDU
Subject: [18225] Re: NERDS Contest - Antenna ideas?
Message-ID: <843fd3ca.35e06a87@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

BILL,
For the INVERTED VEE & REFLECTOR The wires at ground level should be about 20 ft apart with the REFLECTOR extending wider than the VEE to be effective. Same with the ENF FED 1/2 WAVE.They work darn well.
Alan KB7MBI

Date: Sun, 23 Aug 1998 12:26:52 -0700
From: Dave Willey <dave@cds1.net>
To: QRP-L <qrp-1@Lehigh.EDU>
Subject: [18226] Multi-band micro beam using hamsticks?
Message-ID: <35E06CFC.726@cds1.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi All,

Resently there have been a few mentions of using Ham Sticks in a monoband micro beam config. (See URL below)

<http://www.eng.mu.edu/~usi/hamstick.html>

Our local QRO club (SCAR) likes to put on "miniDXpditions. Over the last few years we've gone to Death Valley, Alcatraz (Twice. In fact the club call W6LFJ is listed as activating Alcatraz in th USIOTA. That trip was a blast! Got to spend the night in D block and had the run of the whole island after hours.)

Next week we're going to Angel Island. Nice tie in to QRP is that with each trip, we're having to reduce power as AC isn't always available. And w/ the trip next week, we can't bring gas of any kind on the ferryboat. Coast Gaurd regs won't allow it. So we're going battery power. Nice to see that more of the club members going to less & less power. Hopefully soon, several of the QRP guys can convince the club to put up a QRP trip somewhere neat.

We do enough of these trips, that I'm wondering if it would be practical to come up with a "multiband microbeam" using Hamsticks. I'm looking for something that has directivity on sevral bands, 40-10 mostly. Must be small as we often have to go through very small openings to get to roofs. (Remember Excape from Alcatraz?) Should be easy to assemble & mount on several TV mast sections.

Hamsticks seem to me to be the answer. However I'm no HF antenna expert. I'd be willing to compromise some bandwidth for directivity. Thoughts?

I also am thinking about trying out some of these antenna modeling software prgrams that I've been hearing about. Any recommondations? Any software already set up to model hamsticks? This time, I want to model the design "on paper/computer" instead of building, testing, tearing apart, rebuilding, retesting, ad nausium.

Thoughts?

Dave - KD6KWM

--

To send a reply please remove "NOJUNKMAIL" from the return address,

and replace "AT" with "@"

Dave Willey
e-mail: dave AT cds1.net
amateur e-mail: kd6kwm AT cds1.net
amateur packet: KD6KWM@KD6KWM.#NCA.CA.USA.NOAM
--
QRP-L #1567

Date: Sun, 23 Aug 1998 12:28:22 -0700
From: Dave Willey <dave@cds1.net>
To: QRP-L <qrp-l@Lehigh.EDU>
Subject: [18227] WD-40 Magic / Myths
Message-ID: <35E06D56.34DD@cds1.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

>From bits and pieces of QRP-L messages...

>> Popular usage
>> has created a mystical aura around it and of course the WD-40 people have
>> not publically dispelled the notions that it will work miracles such
>> lubricating bearings, easing arthritis pain etc.

> And believe it or not, it makes a great cologne. Women love the
>smell of WD-40 as they get the impression you can fix things. Go ahead,
>try it.

And it's great for removing bubble gum out of carpets & clothes.

(QRP tie - in below....)

If, say you happen to drop your wad whilst fixing your smoked HW-8...

Dave - KD6KWM

--
To send a reply please remove "NOJUNKMAIL" from the return address,
and replace "AT" with "@"

Dave Willey
e-mail: dave AT cds1.net
amateur e-mail: kd6kwm AT cds1.net

amateur packet: KD6KWM@KD6KWM.#NCA.CA.USA.NOAM

--

QRP-L #1567

Date: Sun, 23 Aug 1998 15:22:38 EDT
From: ARDUJENSKI@aol.com
To: qrp-l@Lehigh.EDU, bill@willapabay.org, nwq-l@scn.org
Subject: [18228] THE INVERTED WYE
Message-ID: <63cda51c.35e06bfff@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

Bill,

One more to try that is simple is the INVERTED WYE. I got this from DOC K0EVZ a few weeks back. It is a 1/4 wave vertical wire with two 1/4 wave radials. Suspend the vertical as high as you can and run the two radial out at an angle; like a big peace sign. (Yeah and a little hemp guy lines). Anyways it seems to work better than the J-POLE on 20 and 40M. Let me know when you are ready to test.

Alan KB7MBI

Date: Sun, 23 Aug 1998 15:42:23 -0400
From: "Beaks" <beaks@westco.net>
To: "qrp-l" <qrp-l@Lehigh.EDU>
Subject: [18229] ZM-2 caps, hamfests, mini-keyer
Message-ID: <00a701bdcece\$26ab7e80\$534ef5cd@beaks>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hello all, For those interested, still have not located a source for the dual section plastic encased variable caps for a replacement in the ZM-2. Lots of single section ones out there but no doubles. Still looking. Just recieved my Whiterook MK-64 mini paddle and keyer a few days ago and really enjoying it...have been using it more and more in place of the Bencher here on the desk, has a great "feel" and pretty neat to operate also. Highy recommended.

Two good hamfests coming up in the OH/PA/WV area, first is the Butler, PA hamfest on Sept.13 at the fairgrounds. (their giving away an SGC 2020!!!) Wheeling WV is on the 12th, day before Butler, at Wheeling Park. Both are

great fests where you can find pretty much anything. Hope to be at both of them.

72 de Arch N8EAG

Date: Sun, 23 Aug 1998 15:56:10 EDT
From: WD6BOR@aol.com
To: qrp-1@Lehigh.EDU
Subject: [18230] Protel, schematic drawing programs?
Message-ID: <46d731de.35e073dc@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

I've downloaded the demo version of Protel to try drawing schematics for electronics labs at school but am having a problem manipulating the drawing objects on the page. Does this program have a "rotate object" function and if so how is it used? I can't find any reference to it in the help files.

I've been drawing electrical blueprints using Autocad on the PC and Powercad on the Mac. If anyone has a lead to electronics symbol libraries for those two programs I could use them. I don't need the SPICE function but I would like to be able to insert the schematics into a MS Word document since I have all my other school related files in that program.

Any help will be appreciated.

72,
Darrel Jones, WD6BOR
Sonoma, CA

Date: Sun, 23 Aug 1998 02:56:33 -0700
From: Lisa Osier <osier@northnet.org>
To: qrp-1@Lehigh.EDU
Cc: osier@northnet.org
Subject: [18231] CQC.....
Message-ID: <35DFE751.6C97@northnet.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Sorry Gang!!

Wrong contest...too many contests on one sheet here...
my mistake.....

for the next QRP test look in the Novice section of 40 and 15
meters ...will surely be there ... Thanks agn!!!!

73/72s

George Osier N2JNZ/QRP
MEMBER OF NNYCC (NORTHERN NEW YORK CONTEST CLUB)

Date: Sun, 23 Aug 1998 13:38:04 -0700
From: "Bill Todd" <bill@willapabay.org>
To: <ARDUJENSKI@aol.com>
Cc: <nwq-1@scn.org>, <qrp-1@Lehigh.EDU>
Subject: [18232] Re: NERDS Contest - Antenna ideas?
Message-ID: <000601bdced5\$eeda9420\$1d4ffbce@default>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

>BILL,
>For the INVERTED VEE & REFLECTOR The wires at ground level should be about
20
>ft apart with the REFLECTOR extending wider than the VEE to be effective.
Same
>with the ENF FED 1/2 WAVE.They work darn well.
>Alan KB7MBI

Thanks for the clarification Alan!

CUL, Bill-N7MFB
<http://www.willapabay.org/~bill>
ICQ me @ 8926298

Date: Sun, 23 Aug 1998 14:03:51 PDT

From: "laura halliday" <marsgal42@hotmail.com>
To: qrp-l@Lehigh.EDU
Subject: [18233] Somebody Software (was: re: CW Binaural Spatial Separation)
Message-ID: <19980823210351.7804.qmail@hotmail.com>
Content-Type: text/plain

Claton Cadmus (applitech@mcg.net) wrote:

> ...But I like many others already have a sound card in the
> shack computer and if the software is already available what
> could be easier?

The key issue with such software is the capability of the sound card and its drivers to simultaneously listen and talk, which only newer cards can do.

As for software availability, just as with radio designs, computer programs don't appear out of thin air. Somebody has to write them. Why can't that somebody be you? Just as with hardware designs, we hams *are* expected to show a degree of technical expertise with the tools we use. And software doesn't get much simpler than this.

You could use the window method and work the integrals out by hand on this one. Easy!

Laura Halliday VE7LDH "Que les nuages soient notre
Grid now: CN88hk pied a terre..."
Soon: FN03gs - Hospital/Shafte

Get Your Private, Free Email at <http://www.hotmail.com>

Date: Sun, 23 Aug 1998 17:22:05 -0400
From: Tracy@bytemark.com (Tracy)
To: "QRP-L" <qrp-l@Lehigh.EDU>, "Roger Braker" <msebrakr@telepath.com>
Subject: [18234] RE: 6 meter HB
Message-ID: <001501bdcdec\$13ebf640\$57751ad1@titan>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

> I don't think I really know what is meant by a

> front end. Are you talking about the filter,
> an RF preamp, attunators, all three, or what?

I consider the 'front-end' of a receiver everything from the antenna connection to the first mixer, or product detector in a direct conversion rig. To answer your question exactly, 'all three.'

For my purposes the 'front-end' will be filters and switching relays. I hadn't considered an attenuator, that might be helpful. An RF preamp is definitely not necessary on most of the bands in my case, but may help on ten and six meters. I haven't tested sensitivity yet so I don't know.

So, when you settle in on a 'front end' for your HB six meter rig, let me know!!

Tracy N4LGH
QRP-L #1453

Date: Sun, 23 Aug 1998 16:56:06
From: Roger Braker <msebrakr@telepath.com>
To: qrp-l@Lehigh.EDU
Subject: [18235] bandpass filters
Message-ID: <3.0.5.16.19980823165606.469758ca@telepath.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi Guys,
Does anybody know why the ARRL handbook doesn't have design info for bandpass filters? Also where can I find such information? I need to design a bandpass filter for 50mhz. Thanks for any help.

73,
Arnold kd5ckh

Date: Sun, 23 Aug 1998 16:44:49 -0600 (MDT)
From: Paul Harden <pharden@aoc.nrao.edu>
To: qrp-l@Lehigh.EDU
Subject: [18236] Elmer 100 "Booklet" & QRPP
Message-ID: <Pine.SOL.3.91.980823160100.5978A-100000@zia>
MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

Gang,

When the Elmer 100 project started, there was a bunch of talk on QRP-L about putting all the lessons, circuit theory, SW+ instructions and mods, etc. into a booklet. Of course this would be an expensive endeavor by itself. So Doug Hendricks has decided to do this in the next (autumn) QRPP ... it will be dedicated entirely to the Elmer 100 project. It will be organized by the lessons. Each section will contain Mike's excellent lessons, the step-by-step assembly instructions, followed by the detailed circuit analysis and descriptions offered by many on QRP-L. Also included will be other Elmer 100 related articles, such as Garry Surrency's 5-watt modifications, for which was posted on QRP-L, but Gary has expanded it for the article purposes with schematics, illustrations, etc. Of course the info on Dave Benson's SW+ itself will be included also. In short, it will be a stand-alone book on the Elmer 100 project. There will also be some 500 extras printed, which will be made available for purchase sometime next year, after the QRPP annual volumes also become available, or to use for round two should that come about. Doug says it looks like he has around 80 pages for the booklet/QRPP.

The Winter QRPP will be primarily dedicated to Jim Kortge's now famous 2N2 rig ... also known as Elmer 300 or the "Manhattan Project." This is Jim's winning entry in the 2N2222 Dayton building contest, and is truly a piece of work. (I'm qualified to say so, since it is sitting on the desk within arms distance of me right now!). I just finished doing a bunch of detailed photography of it so I can illustrate it for the QRPP. This construction special in the winter QRPP will be a detailed step-by-step, build it yourself from scratch rig instructions. If you've ever wanted to build a QRP transceiver from scratch, this will allow you to do it ... plus will be the basis of the building contest for the 1999 PacificCon Building Contest. It will be fully illustrated exactly as Jim built his ... of course you can add your own flavor and layout if you wish. This is also a very good performing rig (I've tested it) with the diode mixers providing an MDS of -112dBm just with 1N4148 diodes, variable bandwidth IF filtering from about 800 down to around 200 Hz (depending upon the Q of the varicaps used) and 2.5-3.0W with the parallel metal can 2N2222's (see the summer QRPP Hints and Kinks for illustrations of the PA). The VFO is so linear, you get a direct frequency readout from a 10-turn vernier, and rock stable (tuning range 7.000-7.100 MHz). Jim is working on the Parts List now, and two others are building the VFO and other parts to verify repeatability in performance. This will be another classic construction project ... the first complete build-it-from-scratch rig. (This is all work in progress, so please don't ask me or Jim just yet for the schematics, parts list, etc. ... details will be posted when this stuff becomes available).

Space permitting, the Winter QRPP should also contain the schematics and building information on the NorCal 20 rig by Dave Fifield.

So the next two QRPP's will be chock full of building stuff, and thought you'd like to know what some of these upcoming efforts are. If you don't subscribe to QRPP, I suggest contacting Doug H. or Jim Cates fairly soon, as the cutoff date for the autumn QRPP will be around Sept. 15th (that's when the QRPP mailing labels will be printed out). The \$15/yr subscription price will be worth it for the Elmer 100 and Jim's 2N2 project "booklets" alone.

Keep building ...
72, Paul NA5N

End of QRP-L Digest 1192

